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MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

WWW.MIMIC.CO.ZA

CABLE MANAGEMENT

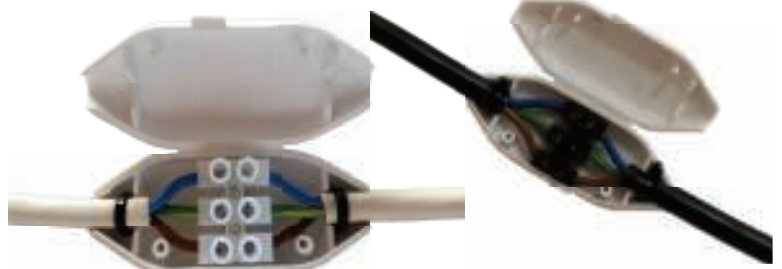
DRILL - HAMMER - CABLE TIE



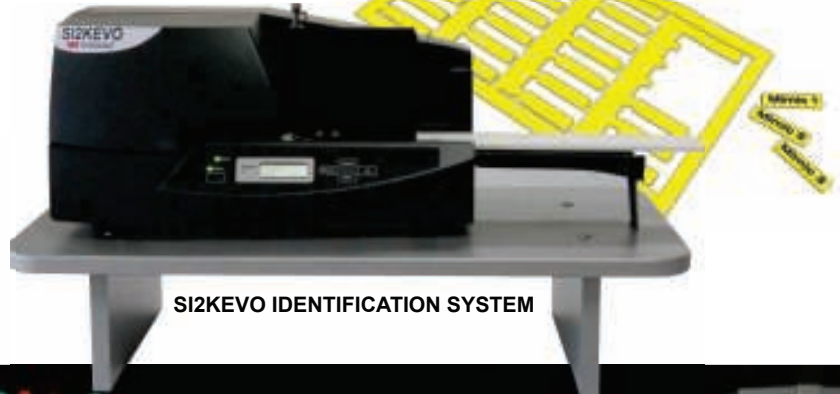
Ideal for holding cables/pipes
40-100 mm in diameter
SABS Tested to 122 kg pull out force



JOINT KITS



TRASP KITS - WIRE MARKING



SIZKEVO IDENTIFICATION SYSTEM

CABLE ID PRINTER



INDICATORS



This guide is aimed at assisting the user and specifier to obtain the best possible indicator lamp for their application. This guide covers LED Indicators and Pilot Lights only. Mimic Components also offer a full range of NEON Pilot Lights for lower cost, less demanding applications. Neons offer a big price advantage in the higher voltages, but are very dim, are not available in green, suffer from residual glow and do not last as long as LEDs. They are ideal for domestic applications and simple "power on" indications on power supplies etc...

Mimic Components pioneered the use of LED Pilot Lights in South Africa, and with 15 years experience in indicating devices, is well qualified to comment on the practical applications of pilot lights.

This guide is biased toward practical applications: Pilot Lights are arranged in order of cutout size. Some lamps are made especially for $\phi 30\text{mm}$ but we also offer an adaptor which converts $\phi 22\text{mm}$ lamps to $\phi 30\text{mm}$ (YADP30 on pg 1.4).

IT IS MOST IMPORTANT TO BEAR IN MIND THE OPERATING VOLTAGE, AS THIS PREDETERMINES THE VARIETY AND TYPE OF PILOT LIGHT TO BE USED. In the lower range (24V) all of our lights are suitable. In the higher range (220V) only selected lights are suitable, due to the large resistors or voltage converters required for LEDs which operate at approx. 2V per chip.

We also offer AC/DC (universal AC or DC on the same device) and only DC, so care must be taken in fully specifying the available voltage and current.

It is a common misconception that Cluster LEDs need to be paralleled to obtain greater reliability. This is not necessarily so; LEDs in series offer the advantage of reduced power consumption and, in the very remote chance of failure, they usually fall into short circuit and thus the others continue to operate.

It is now well accepted that LEDs offer the best illumination / lifetime compromise. They may not be as bright as filaments, but have been found to be very adequate and have a proven reliability 50 times greater than that of filament lamps.

LEDs also have a MTBF (Mean Time Between Failure) of approx. 15 years compared with a typical filament bulb MTBF of one month. LEDs consume less power, generate negligible heat, are immune to vibration and can often withstand severe over voltage.

Also included is Mimic Crafts Alarm Indicators which are efficient and aesthetically pleasing on operator information panels. These can be made up in configurations to suit almost any requirement. They are the modern way to display important PLC or other information. In many cases they are far superior to pilot lights and labels as the label is an intrinsic part of the indicator.

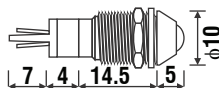
LED INDICATORS

KRE105

Chrome plated LED indicators with built in resistor and Solder connections.

Cutout: $\phi 8\text{mm}$
24V DC

Colours: Red, Green or Yellow

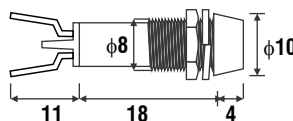


ADLED8

Chrome plated LED indicator with built in resistor and solder connections.

Cutout: $\phi 8\text{mm}$
12V, 24V, 48V DC

Colours: Red, Green, Yellow also available in Blue or White

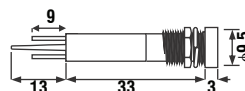


LD1950

Chrome plated LED indicators with built in resistors and 2.8mm fast-on industrial terminations

Cutout: $\phi 8\text{mm}$
130, 230V AC

Colours: Red, Green or Yellow

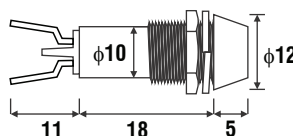


ADLED10

Chrome plated LED indicator with built in resistor and solder connections.

Cutout: $\phi 10\text{mm}$
12V, 24V, 48V DC

Colours: Red, Green, Yellow also available in Blue or White



SKGU....



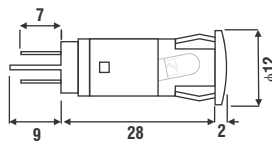
S - Normally Stock
L - Limited Stock
O - Ex Order

Quick & economical snap in mounting.
Transparent housing
Super-bright LED's
2.8mm fast-on industrial terminations

Cutout: $\phi 10\text{mm}$

24, 230V AC

Colours: Red, Green or Yellow



LD14....

Chrome plated LED indicator using a high tech single 10mm LED with 2.8mm fast-on industrial terminations.

Cutout: $\phi 14\text{mm}$

Colours: Red, Green or Yellow

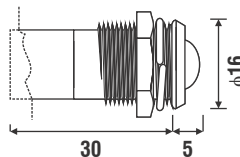
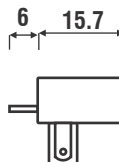
Plug in transformer:-

AT4000-24D (24VAC/DC)

AT6000-48B (48-60VAC/DC)

AGT700-130B (130VAC/DC)

AGT800-230B (230VAC/DC)



LD1930

Chrome plated LED indicator using a high tech single 10mm LED with 2.8mm fast-on industrial terminations.

Cutout: $\phi 14\text{mm}$

Colours: Red, Green or Yellow

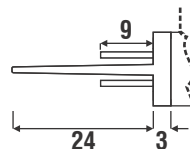
Plug in transformer:-

AT4000-24D (24VAC/DC)

AT6000-48B (48-60VAC/DC)

AGT700-130B (130VAC/DC)

AGT800-230B (230VAC/DC)



KP142F (Body)

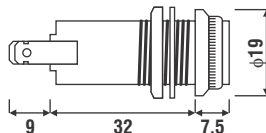
LN142F2-W (White Lens)

Cutout: $\phi 16\text{mm}$

12, 24, 48, 110 & 220VAC/DC
30V DC

Colours: Milky White lens which changes colour when the led lights up.
See Pg8 for E10 Led options

Japanese made lamp-holder which uses a $\phi 10\text{mm}$ E10 multichip LED.
This unit can be made IP65 & vandal proof by using lock-tight to secure the removable lens. The LED is then replaceable from the rear.



ND16

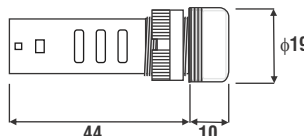
Cutout: $\phi 16\text{mm}$

Voltages: 12V, 24V, 32V, 48V, 110V & 220V

Colours: Red, Yellow, Orange, Green, Blue & White

These Pilot lights offer really excellent value, they use new technology LED's available in bright true colours.

The lens has a diffuser which lights up well and gives even illumination which is very visible even from a 90° angle.



LD16....



S - Normally Stock
L - Limited Stock
O - Ex Order

Cutout: ϕ 16mm

Plug in transformer:-

AT4000-24D (24V AC/DC 14mA)

AT6000-48B (48V AC/DC 14mA)

AGT700-130B (130V AC/DC 6mA)

AGT800-230B (230V AC/DC 6mA)

Colours: Red, Green or Yellow

HIGH QUALITY
EUROPEAN



The IP 65 MULTI-LOOK LED- element shows a high luminous intensity in connection with the reflector. Solid metal housing with exchangeable screw cap.

Already with interior sealing ring and reflector.

Connections:

* Bare tab terminals 2.8 x 0.8mm

D16PL....(Indicator Pushbutton)

DECA

- Size: 18mm, 18x18mm, 18x24mm
- Head Shape: Round, Square, Rectangular
- Various options of different switch type: Standard, Hinge edge
- Terminal: Soldering/Plug-in type
- Lighting: Incandescent 6V AC/DC 200mA, 14V AC/DC 80mA, 28V AC/DC 40mA, 48V AC/DC 25mA,
- 60V AC/DC 200mA, 33V AC/DC 35mA, 6V AC/DC 40mA
- 14V AC/DC 40mA
- Neon Lighting: 110, 220V AC
- LED Lighting: 6, 12, 24V DC
- Lens colours: Blue, Green, Orange, Red, White or Yellow
- Function: Alternate / Momentary
- Contact: 1NO+1NC



KRE216 F



S - Normally Stock
L - Limited Stock
O - Ex Order

KimDen

Not recommended for new projects and designs

Cutout: ϕ 16mm (Dome Lens)

Resistor block with M16 neck (panel portion). 2 superbright Leds give this pilot light excellent front & sideviews. The front lens/Led can be clipped out to change colour.



KRE216 A



S - Normally Stock
L - Limited Stock
O - Ex Order

Not recommended for new projects and designs

Cutout: ϕ 16mm (Flat Lens)

Colours: Red, Green, Yellow, Amber & White
Voltage: 12, 24, 30, 48, 60, 110 & 220VAC/DC



KRE222A



S - Normally Stock
L - Limited Stock
O - Ex Order

Dome Lens

Cutout: ϕ 22mm

Voltages: 12, 24, 30, 48, 60, 110, 220V AC/DC



KRE222F



S - Normally Stock
L - Limited Stock
O - Ex Order

Flat Lens

Cutout: ϕ 22mm

Voltages: 12, 24, 30, 48, 60, 110, 220V AC/DC

Colours: Red, Green, Yellow, Amber or White

YADP30A/B Collar options available



Four super-bright LEDs give this top of the range pilot light excellent front & side views.

The front lens/LED can be clipped out to change colour.

KRE316



S - Normally Stock
L - Limited Stock
O - Ex Order

**HIGH QUALITY
JAPANESE**

- Model: KRE-316A (dome lens)
- KRE-316F (flat round lens)
- KRE-316Q (square lens)
- KRE-316H (rectangle lens)

Cutout: Ø16.2mm

- Lighting Method: Resistor type multi-chip LED
- Rated Voltage: 12V AC/DC, 24V, 48V (±10%)
- Rated Voltage: 110V AC/DC (90~121V AC/DC)
- Rated Voltage: 125V AC/DC (±10%)
- Rated Voltage: 220V AC/DC (180~242V AC/DC)
- Rated Current: 4~6mA

Protection: Dome and Flat (IP65)

 Square and Rectangle (IP40)

Lighting Colour: Milky White, red, green, orange, yellow and transparent

Weight: 15g

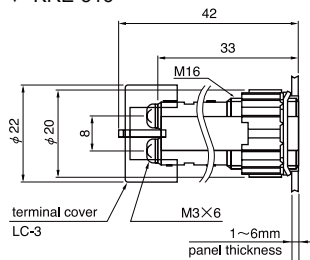
Lens Shape: Dome, round flat, square and rectangle

Bezel Colour: Black

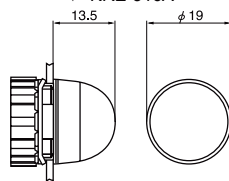
Lens: Polycarbonate resin(milky white, red, green, orange, yellow and transparent)

- Greater brightness obtained by adding a lens with knurling
- Wide angle of visibility, clearly seen from the side when lit
- Terminal protection cover can be attached (optional)

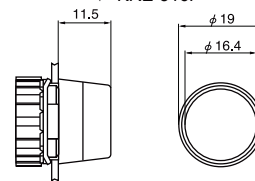
▼ KRE-316



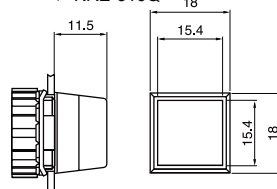
▼ KRE-316A



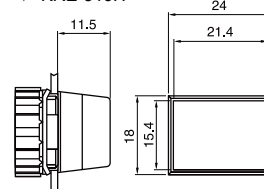
▼ KRE-316F



▼ KRE-316Q



▼ KRE-316H



KRE322

- Model: KRE-322A (dome lens)
- KRE-322F (flat round lens)
- KRE-322Q (square lens)
- KRE-322H (rectangle lens)

Cutout: Ø22.3mm

- Lighting Method: Resistor type multi-chip LED
- Rated Voltage: 12V AC/DC, 24V, 48V (±10%)
- Rated Voltage: 110V AC/DC (90~121V AC/DC)
- Rated Voltage: 125V AC/DC (±10%)
- Rated Voltage: 220V AC/DC (180~242V AC/DC)
- Rated Current: 4~6mA

Protection: Dome and Flat (IP65)

 Square and Rectangle (IP40)

Lighting Colour: Milky White, red, green, orange, yellow and transparent

Weight: 22g

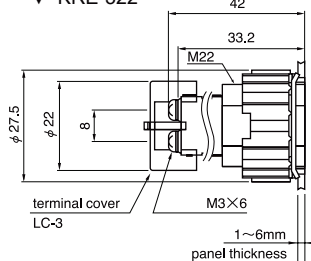
Lens Shape: Dome, round flat, square and rectangle

Bezel Colour: Black

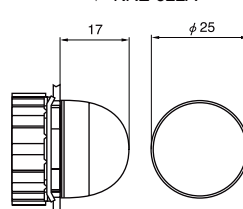
Lens: Polycarbonate resin(milky white, red, green, orange, yellow and transparent)

- Greater brightness obtained by adding a lens with knurling
- Wide angle of visibility, clearly seen from the side when lit
- Terminal protection cover can be attached (optional)

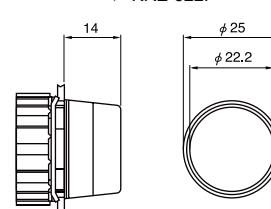
▼ KRE-322



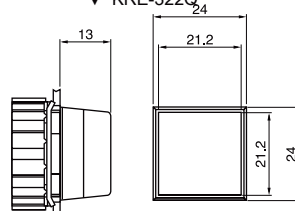
▼ KRE-322A



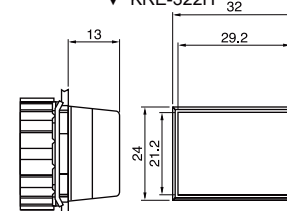
▼ KRE-322F



▼ KRE-322Q



▼ KRE-322H



MAC22



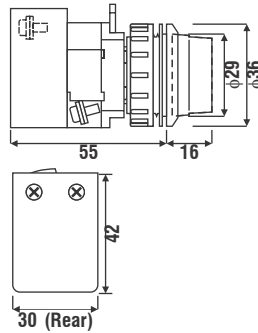
S - Normally Stock
L - Limited Stock
O - Ex Order



Cutout: $\phi 22\text{mm}$
Voltages: 110, 220, 380,
500V-600V AC Only

Colours: Red, Green, Yellow, Orange, Blue, Clear or Milky White.
(Green LED with a Blue lens) (Yellow LED with a Clear or White lens).

With multichip "Based" led lamp. A locally developed AC ONLY unit that generates less heat. It is totally enclosed in a light green & uses an 8 chip "multichip" BA9S bayonet LED element.



YADP30A Collar



YADP30B Collar

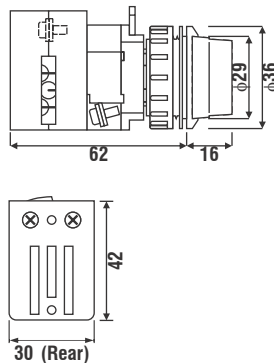
MRE22

Overvoltage protection

Cutout: $\phi 22\text{mm}$
Voltages: 110, 220V AC/DC

Colours: Red, Green, Yellow, Orange, Blue, Clear or Milky White.
(Green LED with a Blue lens) (Yellow LED with a Clear or White lens).

MRE22 with multi chip "Based" led lamp. These medium cost units are proving an ideal replacement for filament lamps due to its 15 YEAR expected life. The operating voltage supplied to the LED is limited to 24V, thus protecting the LED element against "over-voltage" conditions. (This is also an important safety consideration as the voltage on any accessible part is limited to 24V DC).



YADP30B Collar



Standard No Collar

SRE22

As per MRE22 but with new super single chip "BA9S LED".

YADP30A chrome Cutout: $\phi 30\text{mm}$

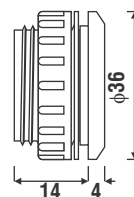
These $\phi 30\text{mm}$ adaptor for all our $\phi 22\text{mm}$ Indicators and Pushbuttons.

(A) This is a chrome-plated collar which allows the MAC/MRE/KRE222 to fit into a $\phi 30\text{mm}$ cutout.

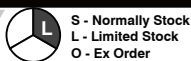


YADP30B black Cutout: $\phi 30\text{mm}$

(B) This is a black collar which allows the KRE 222 F/A/ND22/DC/DT to fit into a $\phi 30\text{mm}$ cutout.



ND22-..

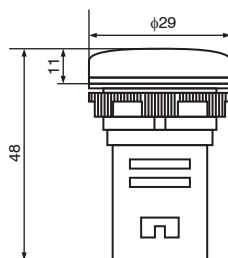


LED INDICATOR LIGHT

The ND22 series indicators adopt super bright LED technology with low energy consumption. The special locking nut structure allows this indicator to be used for either a $\phi 22.5\text{mm}$ or a $\phi 25.5\text{mm}$ panel cut-out. Degree of protection is IP65. (The LED is not replaceable).

- Two types of lens are available for all models.
- Low profile translucent fresnel type.
- High profile fully diffused smooth type.
- $\phi 30\text{mm}$ cut-out adaptor available - see YADP30.
- Colours: Red, Green, Yellow, Orange, Blue or White.

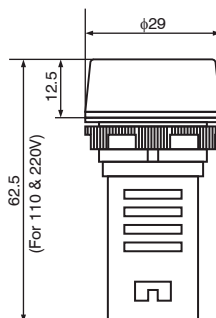
- ND22-BS** AC/DC 6V (ex indent)
- ND22-BS** AC/DC 12V
- ND22-BS** AC/DC 24V
- ND22-BS** AC/DC 32-36V
- ND22-BS** AC/DC 48V
- ND22-B** AC/DC 110V
- ND22-B** AC/DC 220V
- ND22-B** AC 380V (ex indent)



Low profile lens on Low profile base



Low profile lens on High profile base



High profile lens on High profile base



High profile lens on High profile base

When ordering these units please specify Base and Lense Combinations

A20P

DECA

PILOT LIGHTS

A premium high quality range of $\phi 22\text{mm}$ Pilot lights suitable for all applications. DECA is a world renowned supplier for multiple European first tier companies.

- Cutout $\phi 22\text{mm}$
- Rated 250 V AC/DC
- Uses BA9 lamp inserts.
- Degree of Protection Ip20
- Ease of assembly
- Wider Light distribution
- Colours: Amber, Blue, Clear, Green, Red, Yellow

Illumination Type	Operating Voltage	Type No	Lens Colour(*)
LED	100/110V AC/DC	A20P-2EH2*	Amber
	200/220V AC/DC	A20P-2EM2*	Clear
	115/120V AC/DC	A20P-2EH22*	Green
	230/240V AC/DC	A20P-2EM42*	Red
Incandescent	100/110V AC/DC	A20P-2EH5*	Blue
	200/220V AC/DC	A20P-2EM5*	White
	115/120V AC/DC	A20P-2EH25*	Yellow
	230/240V AC/DC	A20P-2EM45*	



LOW PROFILE OPTICAL LAYERED



CONTACT BLOCK



EXTENDED



MARKING PLATE



DOME



LOW PROFILE MARKING TYPE

XB2



S - Normally Stock
L - Limited Stock
O - Ex Order

PILOT LIGHTS

Cutout: $\phi 22\text{mm}$

- BV61** White, Direct Connection, 6~380V
- BV63** Green, Direct Connection, 6~380V
- BV64** Red, Direct Connection, 6~380V
- BV66** Blue, Direct Connection, 6~380V
- BV65** Yellow, Direct Connection, 6~380V
- BV66** Blue, Direct Connection, 6~380V
- BV71** White, Resistance, 220V , Supplied with a 110V BA9S Red Neon
- BV73** Green, Resistance, 220V , Supplied with a 110V BA9S Green Fluorescent
- BV74** Red, Resistance, 220V , Supplied with a 110V BA9S Red Neon
- BV75** Yellow, Resistance, 220V , Supplied with a 110V BA9S Red Neon
- BV76** Blue, Resistance, 220V, Supplied with a 110V BA9S Red Neon.

BA9S Lamp Holder(see page 1. 8 for LED selection)



XB4

Np4 series of buttons for AC 50Hz or 60Hz, voltage up to 380V, 220V DC voltage to the circuit control system. As electromagnetic starter , contactor, the relays and other electrical control circuit used. With light buttons are also applicable to light signals indicative of the occasion



QXJL5 (Black)

QXJL5DG (Charcoal)

- Lenses and nameplates to be ordered separately
- Mounting diameter: 24 x 24 mm
- Degree of protection: IP65
- Protection class: II (protective insulation)
- Shape: square
- Connection type: flat-plug connections
- Illumination: Yes
- Lamp socket: T5,5K
- With labeling option: Yes
- Front bezel: Black / Charcoal



A0271

APEM

Cutout: 29,5 x 21,5mm

Lamp: Midget Groove Lamp or LED (MG T1¼)

Voltages:

Lamp:14, 28, 48, 50 & 60V AC/DC

Neon:110, 220V AC Red

Flourescent :110, 220V AC Green

LED:6 chip 12, 24 & 48V AC/DC - Red, Green or Yellow

LED:1 chip 24V DC - Red, Green, Yellow or White.

Colours: Red, Green or White (Other colours available ex - indent)



LE50BC

ADDA

Cutout: $\phi 50\text{mm}$

Voltages: 24, 32, 48, 60, 110 & 220V AC/DC

Also available for 380V & 500V AC encapsulated

Colour: Red(Red lens), Orange, Green or Yellow(Clear lens)

This is a 16 LED insert with a B22 base for the Crab tree MCR 50 pilot light. This "insert" can be supplied alone or with the Crab tree holder. The 16 super-bright LED's provide good illumination for lock-light boxes etc...E27 screw base also available.





S - Normally Stock
L - Limited Stock
O - Ex Order

- Cutout: $\phi 22\text{mm}$
- Voltages: 24, 32, 60, 110 & 220V DC Only
- Direct connect
- Colours: Red (Large bar),
Deep Green (Side bars). Other colours on special order
- Current: 4mA

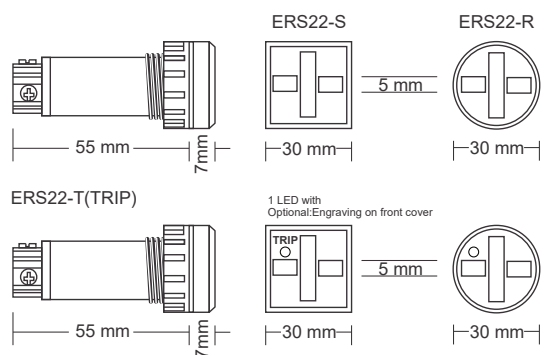


ADDA ERS-22-LP

- New low profile bezel matches with the ND22 low profile pilot light range.

These top of the range LED Semaphores have large, bright, even bars using high bright Red & Green SMD LED's to rear illuminate the white bars. They are available with round or square bezels & have a standard $\phi 22\text{mm}$ thread. These Semaphores give you an automatic status indication of circuit breakers, isolators & earth switches on mimic diagrams of control panels. A wide range of voltages are available from 24 to 220VDC. Other colours other than Red & Green can be done on special order.

- Power consumption only 4mA.
- Top of the range Semaphore.
- Large bright, even bars with particularly good green (True Green).
- Ultra bright direct view LED's (not film like other types)
- this mean that less power can be used and brighter clearer definition is obtained.
- Totally encapsulated thus electronics cannot corrode and heat is well dissipated.
- EX rated models on special order.
- New low profile bezel matches with the ND22 low profile pilot light range.



ADDA MSR22

NON-STOCK
SERVICE ITEM ONLY

Cutout: $\phi 22\text{mm}$
24, 32VDC, 17mA
Colours: Red & Green

ADDA MSR22A

Cutout: $\phi 22\text{mm}$
24, 32VDC, 17mA
Colours: Red & Green

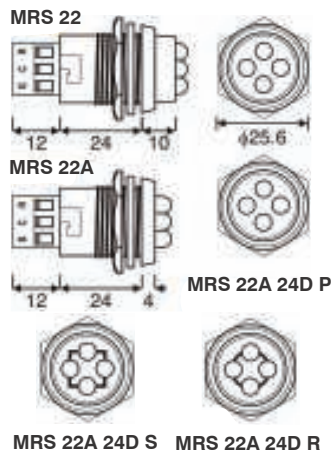
SAKRR1

110VDC-2 RESISTOR TERMINALS

SAKRR2

220DC-3 RESISTOR TERMINALS

(Other voltages are available when using external DIN terminals fitted with a resistor).



ADDA KP33

Cutout: $\phi 30\text{mm}$
24, 32VDC, 17mA
Colours: Red & Green

(Other voltages are available when using external DIN terminals fitted with a resistor).
110VDC-2 RESISTOR TERMINALS / 220DC-3 RESISTOR TERMINALS



LBS050



S - Normally Stock
L - Limited Stock
O - Ex Order

SEMAPHORES

Low current Electro mechanical semaphore

Cutout: Ø40.5mm

Bezel: Ø48mm

Burden: 30mA (typical)

Rated Voltage: 24, 30V DC

Operating Voltage: 24/30V DC: No resistors

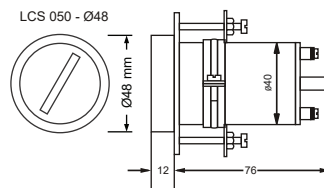
110V DC: Connect 3k Ohms resistor to centre terminal

220VDC: Connect 9k Ohms resistor to centre terminal

Range(burden): 0.5W at 24V to 4W at 220V

Insulation: 2kV RMS, 50Hz for 1 minute or 2.5kV RMS, 50Hz for 1 second between all terminals and case.

Cutout: ϕ 40.5mm



LBS063

Low current Electro mechanical semaphore

Cutout: Ø40.5mm

Bezel: Ø63mm

Burden: 30mA (typical)

Rated Voltage: 24, 30V DC

Operating Voltage: 24/30V DC: No resistors

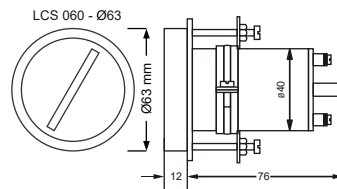
110V DC: Connect 3k Ohms resistor to centre terminal

220VDC: Connect 9k Ohms resistor to centre terminal

Range(burden): 0.5W at 24V to 4W at 220V

Insulation: 2kV RMS, 50Hz for 1 minute or 2.5kV RMS, 50Hz for 1 second between all terminals and case.

Cutout: ϕ 40.5mm



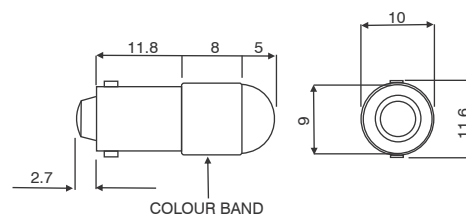
A09BA1

LED LAMP REPLACEMENT

Superbright single chip technology ba9s led lamps

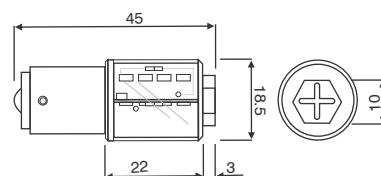
- Part No: A09BA1 - (voltage) - (colour)
- Newest Technology
- Wide Viewing Angle 130° (Equivalent to Multichip Types)
- Vibration Resistant
- Low Power
- Long Life
- E10, E12 & E14 types available with similar specs.
- BiPolar (AC/DC) 24, 110 & 230V
- 5 Colours
(Red, True Green, Yellow, Real Blue or White)

This product uses High efficiency Led materials. Every Lamp is made with an advanced optical grade epoxy offering superior high shock and temperature resistance. The 130° round radiation pattern and high luminous intensity ensure that these devices are perfect for applications where a wide field of view and readability in high ambient lighting conditions is required. These lamps are in some instances suitable for shaded outdoor operating conditions.



LED LAMP SSTAR II

- Shock & vibration proof.
- Life expectancy (min 100, 000 hours).
- Increased reliability through dispartment of the LED's in two split electrical circuits.
- Integrated over voltage protection.
- Power: 1 W at 24 V
- E14, BA15s or BA15d.
- 24/28V, 130V & 230VAC/DC
- Colours: Red, Green, Yellow, Blue or White.





S - Normally Stock
L - Limited Stock
O - Ex Order

LED LAMP REPLACEMENT


★Normally Exstock ○Ex Indent ◊Single chip only

T1 3/4
Midget Groove



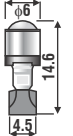
Voltage	6-8	12	24	32	48	60	110	230
Red	★	★	★	○	★	○		
Orange	○	★	★	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	○	○		

T1 3/4
Midget Flange



Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	★	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	○	○		

T4,5
Wedge



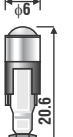
Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		

T5,5
Wedge



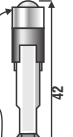
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Red	○	★	★	○	★	○		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	◊	◊	○	○	○		

T5,5K
Wedge



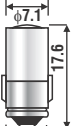
Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	◊	○	○	○		
φ White	○	○	◊	○	○	○		

T6,8
Wedge



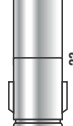
Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	○	★	○		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		

BA5s



Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	◊	★	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	◊	★	○	○		
Green	○	○	◊	★	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	◊	○		

BA7s



Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	○	○	◊		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	○	○		
Green	○	★	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		◊


BA9s



Flashing Options Available


Voltage	6-8	12	24	32	48	60	110	230
Red	★	★	★	★	★	○	★	★
Orange	★	★	★	★	★	○	★	★
Yellow	★	★	★	★	★	○	★	★
Green	★	★	★	★	★	○	★	★
Green (true)	○	○	◊	◊	○	○	◊	◊
φ Blue	○	○	◊	◊	○	○	★	★
φ White	○	○	◊	◊	○	○	★	★

E10




Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	★	★	○	★	★
Orange	○	○	○	○	○	○	○	○
Yellow	○	★	★	★	★	○	★	★
Green	○	★	★	★	★	○	★	★
φ Green (true)	○	○	○	○	○	○	○	○
φ Blue	○	○	○	○	○	○	○	○
φ White	○	○	◊	○	○	○	○	○

BA15D




Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	★	○	★	★
Orange	○	○	○	○	○	○	○	○
Yellow	○	○	★	○	★	○	★	★
Green	○	○	★	○	★	○	★	★
Green (true)	○	○	○	○	○	○	○	○
Blue	○	○	○	○	○	○	★	○
White	○	○	○	○	○	○	★	○

E12




Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○	○	○
Orange	○	○	○	○	○	○	○	○
Yellow	○	○	★	○	○	○	○	○
Green	○	○	★	○	○	○	○	○
Green (true)	○	○	○	○	○	○	○	○
Blue	○	○	○	○	○	○	○	○
White	○	○	○	○	○	○	○	○

BA15S



Voltage	24	110	230
Red	★		
Yellow	★		
Green	★		
Blue	○		
White	○		

E14



Voltage	24	110	230
Red	○	○	○
Yellow	★	○	○
Green	○	○	○
Blue	○	○	○
White	★	★	○



S - Normally Stock
L - Limited Stock
O - Ex Order

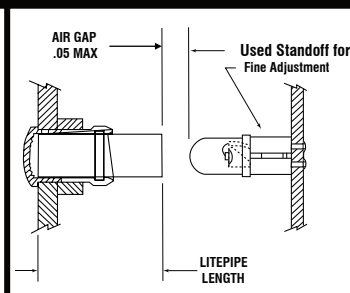
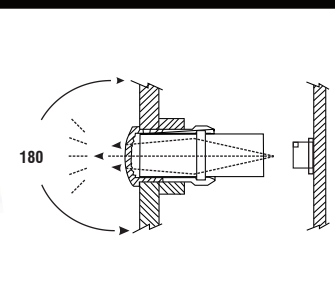
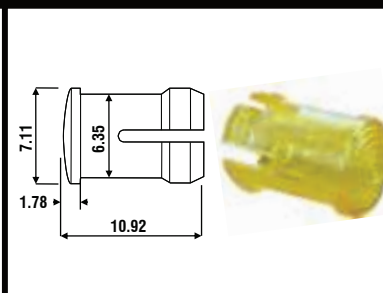
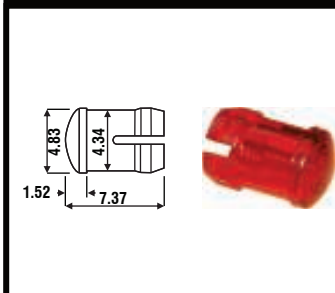
Part No.	Size	Colour	Water-clear or Diffused	Wave Length (nm)	Luminous Intensity			Viewing Angle	Case Style	Diagram of the different Styles	
					IF=10mA(mcd)	*IF=20mA(mcd)	Max.				
3mm STANDARD LED's											
A30D060-22-U	3mm	Super-Red	Diffused	625nm	12.5	22	32	60°	2		
B34D060-2-U	3mm	Flashing Red	Diffused	-	1.3	2	3.2	60°	2		
A30D060-12-G	3mm	Green	Diffused	565nm	5	12	20	60°	2		
A30D060-12-Y	3mm	Yellow	Diffused	590nm	5	12	20	60°	2		
A30D060-30-N	3mm	Pure-Orange	Diffused	610nm	10	30	50	60°	2		
A32D060-250-M	3mm	Ultra-Red	Diffused	660nm	200	250	300	60°	2		
A32W050-700-M	3mm	Ultra-Red	W/clear	660nm	500	600	700	30°	1		
A32W050-1300-M	3mm	Ultra-Red	W/clear	660nm	1100	1200	1300	30°	1		
A32W050-200-G	3mm	Green	W/clear	565nm	100	200	300	30°	1		
A32W050-750-K	3mm	Yellow	W/clear	590nm	400	750	1300	50°	1		
3mm SUPER BRIGHT LED's											
A32W050-600-M	3mm	Ultra-Red	Clear	-	500	600	700	50°	2		
A32W050-1200-M	3mm	Ultra-Red	Clear	-	1100	1200	1300	50°	2		
A32C050-30-Y	3mm	Yellow	Colour Clear	-	50	75	100	50°	2		
A32C050-75-N	3mm	Orange	Colour Clear	-	200	300	400	50°	2		
5mm STANDARD LED's											
A53D060-50-U	5mm	Super-Red	Diffused	625nm	20	50	80	60°	4		
A53D060-50-G	5mm	Green	Diffused	565nm	20	50	60	60°	4		
A53D060-14-Y	5mm	Yellow	Diffused	590nm	5	14	32	60°	4		
A53D060-46-N	5mm	Pure-Orange	Diffused	610nm	12	46	80	60°	4		
M59RG-CA-D	5mm	Red	White	625nm	3.2	5	8	60°	5		
Bi-colour		Green	Diffused	565nm	3.2	5	8				
M59RG-CC-D	5mm	Red	White	660nm	100	200	300	60°	5		
Bi-colour		Green	Diffused	565nm	40	60	80				
5mm SUPER BRIGHT LED's											
A53D060-250-M	5mm	Ultra-Red	Diffused	660nm	200	250	300	60°	4		
A53W030-200-G	5mm	Green	W-clear	565nm	100	200	300	30°	4		
5mm SUPER BRIGHT LED's											
C512MHR-125Q	5mm	Hi-Red	Clear	-	770	1135	1500	25°	4		
C503MBG-115Q	5mm	Green	Clear	-	1520	2260	3000	15°	4		
C503TPG-115Q	5mm	P.Green	Clear	527	12000	17500	23000	15°	4		
C503AYL-115Q	5mm	Yellow	Clear	591	8200	16000	23500	15°	4		
C503NBL-115Q	5mm	Blue	Clear	470	700	900	1100	15°	4		
C503PBL-115Q	5mm	P.Blue	Clear	470	2130	2800	3000	15°	4		
C512TWN-125Q	5mm	P.White	Clear	-	4180	5000	5860	25°	4		
BAR TYPE LED's											
L21D100-12-R	6.1x3.2mm	Super-red	-	-	5	12	20	100°	8		
L21D100-6-G	6.1x3.2mm	Green	-	-	5	12	20	100°	8		
L21D100-6-Y	6.1x3.2mm	Yellow	-	-	5	12	20	100°	8		
L22D120-12-U	10x5mm	Super-red	-	-	5	12	20	120°	9		
L22D120-12-G	10x5mm	Green	565nm	-	5	12	20	120°	9		
L31D120-12-U	22x5mm	Super-red	625nm	-	5	12	20	120°	10		
SURFACE MOUNT LED's											
LM1-UHR-101	3.2x2.8	Hi-red	Clear	624	280	500	-	120°	11		
LM1-PPG-101	3.2x2.8	Green	Clear	525	355	560	-	120°	11		
LM1-AYL-101	3.2x2.8	Yellow	Clear	591	280	300	-	120°	11		
LM1-PBL-101	3.2x2.8	Blue	Clear	470	112	160	-	120°	11		
LM1-PWH-101	3.2x2.8	White	Clear	-	280	450	-	120°	11		
LM1-TPP-101	3.2x2.8	Full Colour	Clear	R=620nm	R=180	300	-	120°	11		
			Clear	G=520nm	G=280	450	-	120°	11		
			Clear	B=465nm	B=71	110	-	120°	11		
			Clear	R=620nm	R=710	1000	-	120°	12		
			Clear	G=521nm	G=710	900	-	120°	12		
LP6-TPP-101	6x5	Full Colour	Clear	R=620nm	R=180	300	-	120°	11		
				G=520nm	G=280	450	-	120°	11		
				B=468nm	B=180	280	-	120°	12		

FLUSH MOUNT LED HOLDERS

SMB 200(3mm)

CLB 300(5mm)

LITEPIPE & SURFACE MOUNT LED'S



ORDERING CODE FOR THE LENSES:

CLB 300 RTP

MODEL	COLOUR
SMB 200 (RND 3mm)	RTP Red Transparent
SMQ 250 (SQ 3mm)	ATP Amber Transparent
CLB 300 (RND 5mm)	GTP Green Transparent
SQB 400 (SQ 5mm)	BTP Blue Transparent
	YTP Yellow Transparent
	CTP Clear Transparent
SPC 125 Spacer for CLB 300 & SQ 400	
RNG 190 Lens Retaining ring for SMB200	
RNG 234 Lens Retaining ring for CMC321	
RNG 268 Lens Retaining ring for CLB300 & CMS322	

ORDERING CODE FOR THE LITEPIPE:

LSV 020 CTP

MODEL	COLOUR
LSV (3mm), LCV (5mm)	CTP Clear Transparent
PRODUCT CODE	
LSV - CODE LENGTH(mm)	LCV - CODE LENGTH(mm)
020 (5.1), 040 (10.2), 060 (15.2)	036 (9.1), 056 (14.2), 076 (19.3)
080 (20.3), 100 (25.4), 120 (30.4)	096 (23), 116 (29.5), 136 (34.5)

ORDERING CODE FOR THE PCB STANDOFFS

STD XXX BLK

LENGTH (2,54 to 25,4mm) COLOUR

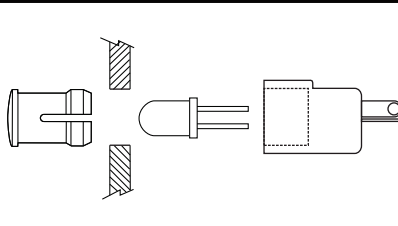
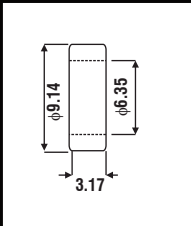
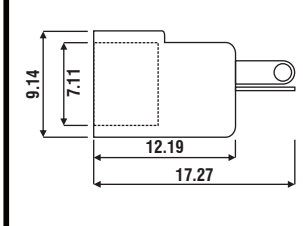


CNX 310

SPC 125

INSTALLATION

ORDERING CODES



CNX 310 012

MODEL	RESISTOR CODE		
CODE	VALUE	CODE	VALUE
000	No Resistor	056	560Ω
012	120Ω	120	1200Ω
018	180Ω	220	220Ω
033	330Ω		

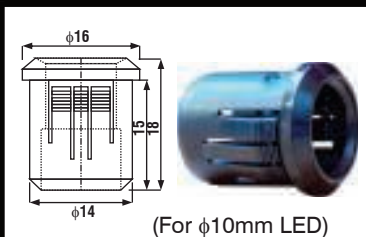
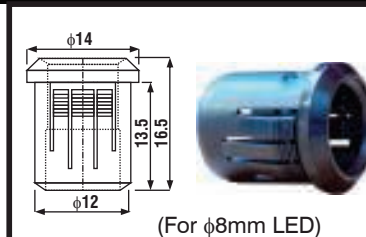
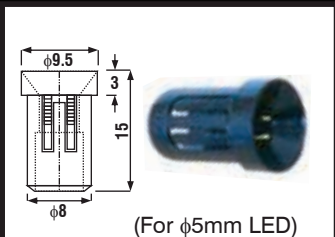
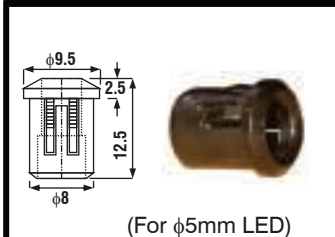
Black Plastic LED Holders

RTF-5010 Cutout: φ8mm

RTF-5020 Cutout: φ8mm

RTF-8080 Cutout: φ12mm

RTF-1090 Cutout: φ14mm



CB3 Cutout: φ6.4mm

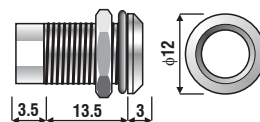
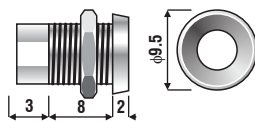
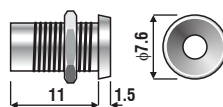
CB5 Cutout: φ8 mm

CB8 Cutout: φ12 mm

Chrome plated or black brass LED holder. Solder or use LED plug on connectors. For use with φ3mm LED's.

Chrome plated or black brass LED holder. Solder or use LED plug on connectors. This pilot light gives a quality look which cannot be achieved with plastic bezels. For use with φ5mm LED's.

Chrome plated, black brass or convex type LED holder. Solder or use LED plug on connectors. This pilot light gives a quality look which cannot be achieved with plastic bezels. For use with φ8mm LED's.



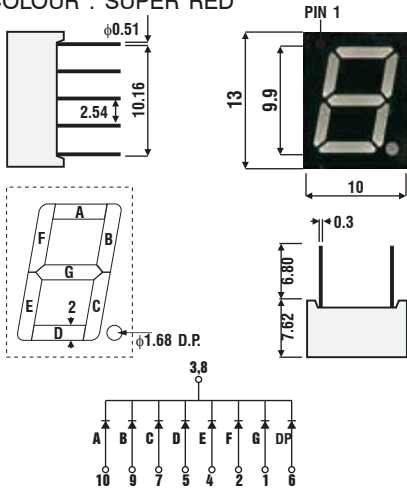
See page 1.10 & 11 for LED options



7 - SEGMENT LED DISPLAYS

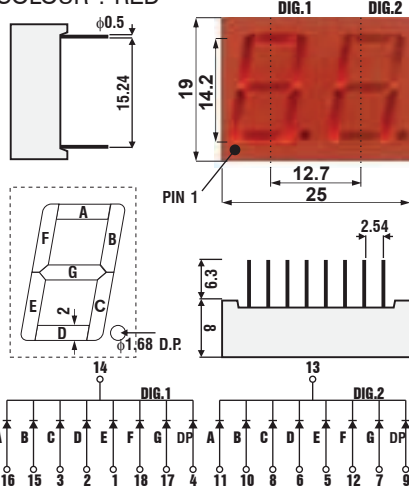
10mm (1BW39SR-C21)

COMMON CATHODE, R.H.D.P.
REF. : EC 3414, mcd : 10.5
COLOUR : SUPER RED



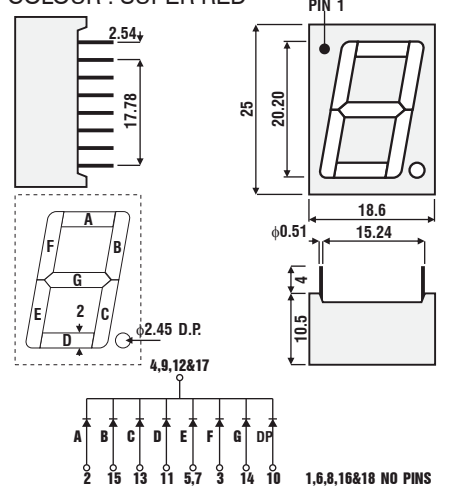
14.2mm (TOD5261-AE-0)

COMMON CATHODE, R.H.D.P.
REF. : EC 5614, mcd : 6.5
COLOUR : RED



20.20mm (1BW80SR-C41R)

COMMON CATHODE, R.H.D.P.
REF. : EC 8214R, mcd : 4
COLOUR : SUPER RED



38mm (1BWA5SR-C11)

COMMON CATHODE
SUPER RED - R.H.D.P.

P	10.66	V	0.5
Q	2.54	W	4
R	12.5	X	33.15
S	4	Y	47
T	φ4.5	Z	38
U	41.14		

57mm (OS23101-BS-B)

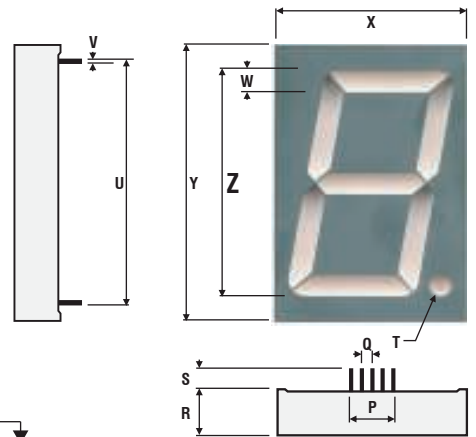
COMMON ANODE
SUPER RED - R.H.D.P.

P	10.2	V	0.6
Q	2.5	W	5.5
R	12	X	48
S	5.6	Y	70
T	φ5.5	Z	57
U	60		

100mm (LA4141-B2)

COMMON ANODE
SUPER RED - R.H.D.P.

P	20.3	V	5.1
Q	5.1	W	10
R	15	X	90
S	7.3	Y	122
T	φ10	Z	100
U	107		



120mm (1BWA5SR-C11)

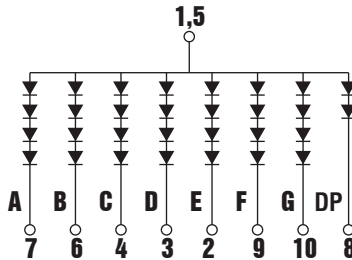
COMMON CATHODE
SUPER RED - R.H.D.P.

P	10.66	V	0.5
Q	2.54	W	4
R	12.5	X	33.15
S	4	Y	47
T	φ4.5	Z	120
U	41.14		

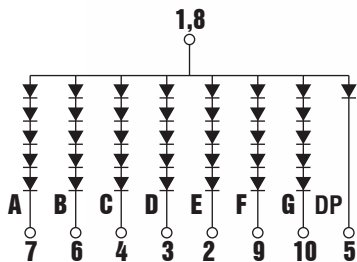
180mm (OS23101-BS-B)

COMMON ANODE
SUPER RED - R.H.D.P.

P	10.2	V	0.6
Q	2.5	W	5.5
R	12	X	48
S	5.6	Y	70
T	φ5.5	Z	180
U	60		



180mm
0



100mm (LA4141-B2)



57mm (OS23101-BS-B)



38mm (1BWA5SR-C11)



These LED driver surge protectors are typically used in outdoor and commercial LED lighting, including traffic lighting, service entrance lighting, flood lighting, tunnel lighting, parking garage lighting, street lighting, roadway lighting and digital signage. This range is available for series as well as parallel connection and include thermal disconnect with built in indicators to monitor protection status.

SLA-A

In this arrangement the protector is connected in series with the LED lighting globes or fixture containing the LED drivers. It may be mounted at the lights or inline in the circuit feeding the lights. Max current rating of the load is not to exceed 10 Amps. Available for low and high exposure situations.

45/033 Low Exposure levels



45/009 High Exposure levels



SLA-B

In this arrangement the protector is connected in parallel with the LED lighting globes or fixture containing the LED drivers. It should be mounted at the lights or LED driver. Available for low and high exposure situations.

45/032 Low Exposure levels



45/008 High Exposure levels



Model	Rated Current	Surge Current	Housing	OD mm	Length mm	Exposure Level
SLA-A	10	6kA	I2	23mm	35mm	LOW
SLA-B	10	10kA	B2	31.5mm	43.5mm	HIGH

MSLC....

MSLC-A series connected with built in indicator, in this arrangement incase of failure the monitoring LED will go out and the luminaire will be disconnected.

MSLC-B parallel connected with built in indicator, in the event of failure the monitoring LED will go out and the surge protection will disconnect the luminaire will continue to operate without protection.

45/035 Low Exposure levels



Status Indicator or 5A relay contact for remote monitoring, tripping etc

45/034 Low Exposure levels



MSLB....

These LED driver surge protectors are additionally fitted with EMI filters containing X and Y capacitors and specifically wound inductors to eliminate the flickering effect found when using LED light dimmers as well as when using generators. They provide additional surge protection for long term reliability to minimise failure of LED lighting systems.



Model	Rated Current	Surge Current	Housing	OD mm	Length mm	Exposure Level
45/031	5	20kA	B2	31.5mm	43.1mm	NA
45/003	10	30kA	RS	44mm	76mm	
45/011	15	30kA	RS	44mm	76mm	
45/012	20	30kA	RS	44mm	76mm	

MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

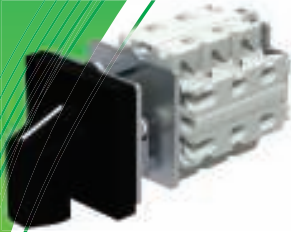
Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

WWW.MIMIC.CO.ZA

COMETRIC



R16 - CONTROL SWITCH



R10 - CONTROL & SELECTOR SWITCH



R20 - CONTROL & LOAD SWITCH



DR20 - DISCREPANCY SWITCH



FRMC6 IP20 - MINIATURE CONTROL SWITCH



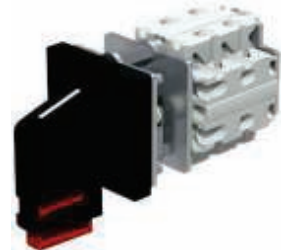
FRMM6 IP20 - MINIATURE CONTROL SWITCH



R10 - SPRING RETURN LAST POSITION MECHANICAL INDICATOR



R20 - PUSH OR PULL OPERATE SWITCH



R20 - PADLOCKABLE

CONTROL COMPONENTS



CONTACT RATE: 5A with resistive load @ 125V AC or 28V DC
 ELECTRICAL LIFE: 50 000 make & break cycles at full load
 CONTACT RESISTANCE: 10mA max initial @ 2-4V DC,
 100mA for both coin silver and gold plated contacts.
 OPERATING STRENGTH: -30°C to 85°C

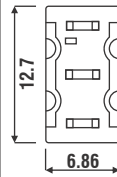
TYPE	MODEL				No. of POSITIONS
SPST	1-SP1TI	ON	NONE	ON	2
	1-SP3TI	ON	OFF	ON	3
	T8014	ON	OFF	ON	3
SPDT	1-SP4TI	(ON)	OFF	(ON)	3
	1-SP5TI	ON	OFF	(ON)	3
	TERMINAL COMMON	2-3	OPEN	2-1	

Schematic



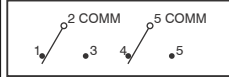
(ON) = MOMENTARY

Cutout: $\phi 6.35\text{mm}$

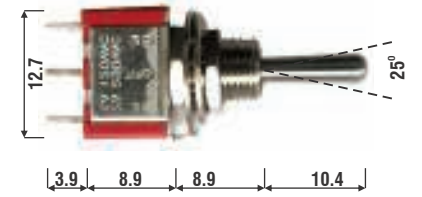
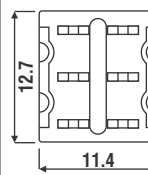


DPDT	1-DP1TI	ON	NONE	ON	2
	1-DP3TI	ON	OFF	ON	3
	TERMINAL COMMON	2-3 & 5-6	OPEN	2-1 & 5-4	

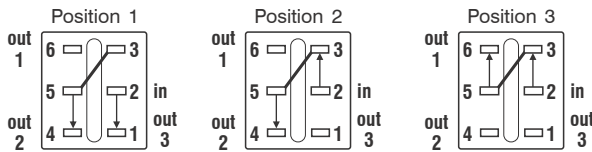
Schematic



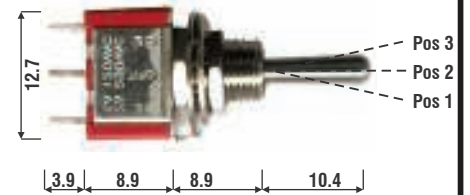
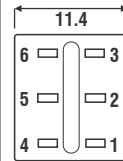
Cutout: $\phi 6.35\text{mm}$



3 WAY	T812	ON	ON	ON	3
	TERMINAL COMMON	2-3 & 5-6	2-3 & 5-4	2-1 & 5-4	

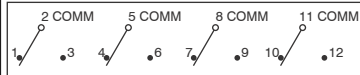


Cutout: $\phi 6.35\text{mm}$

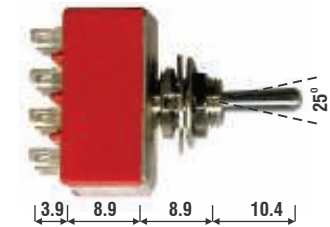
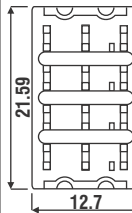


4PDT	T8401	ON	NONE	ON	2
	TERMINAL COMMON	2-3 & 5-6 8-9 & 11-12	OPEN	2-1 & 5-4 8-7 & 11-10	

Schematic



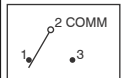
Cutout: $\phi 6.35\text{mm}$



MINIATURE TOGGLE SWITCHES

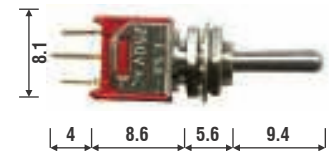
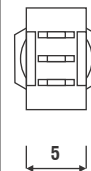
SPDT	TS-4	ON	NONE	ON	2
	TS-4A	ON	OFF	ON	3
	TERMINAL COMMON	2-3	OPEN	2-1	

Schematic



CONTACT RATE: 3A with resistive load @ 120V AC or 28V DC
 ELECTRICAL LIFE: 30 000 make & break cycles at full load
 CONTACT RESISTANCE: 20mW max initial @ 2-4V DC,
 100mA for both coin silver and gold plated contacts.
 OPERATING STRENGTH: -30°C to 85°C

Cutout: $\phi 5\text{mm}$



ACCESSORIES

T80T

Dress Nut



T1-R

Red rubber toggle cap



DS450....(Latching)

- Cutout: Ø10mm
- Colours: Red, White or Black
- Rating: 3A@125 & 1A@250V AC
- Contact: n/o

PUSHBUTTONS



R84A....(Momentary)

R84B....(Latching)

- Cutout: Ø10mm
- Colours: Red, White, Black or Silver
- Rating: 3A@125 & 1A@250V AC
- Contact: n/o



DS464 (Momentary)

- Cutout: Ø10mm
- Colour: Metallic button with a Black body
- Rating: 3A@125 & 1A@250V AC
- Contact: n/o



DS663....(Momentary)



- Non-illuminated type Pushbutton
- Shape: Circular
- Mounting Hole: Ø15mm
- Contact Configuration(pushbutton): SPST
- Operation: Lock free
- Terminal type: Soldering
- Current capacity@125Vac:1A
- Switch characteristics: Off-(On)
- Button Colours: Black, Red, White



DS770 (Red Dot)

DS771 (White Dot)

- Keylock Switch
- Shape: Circular
- Mounting Hole: Ø16mm
- Contact Configuration(key lock, selector): 1a
- With key: Present
- Notch Number: 2
- Suspend / Return: Suspend
- Terminal type: Soldering
- Current capacity@125Vac:3A
- Current capacity@250Vac:1A



Alternate

Two position:



TA1275

- Dimensions: 12x12mm - 7.5mm high
- Voltage: 50mA@12V DC



TACTILE SWITCHES

KTSC22R

TA1243

12x12mm - 4.3mm high

TA067.5

6x6mm - 7.5mm high

TA069.5

6x6mm - 9.5mm high



KTSC22R

Voltage: 50mA@12V DC

- Red Tactile Lens



ADA16S....

DECA

Ø16mm Pushbutton Switches

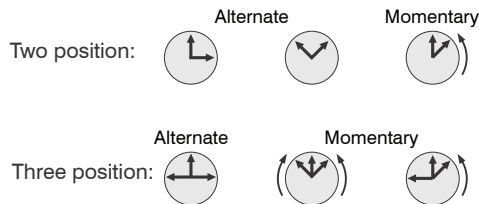
- Cutout: Ø16mm
- Head Shape: High Bezel - Round, Square or Rectangular
Flush Mounting - Round, Square or Rectangular
Overhanging Lens - Square or Rectangular
Full Guard - Square
Flush Mounting - Round, Square or Rectangular
- Available sizes: Rectangular - 18x24mm
Square - 18x18mm / 24x24mm
Round - Ø18mm
- Degree of protection: Ip65
- Colour: Green, White, Orange, Red, Blue or Yellow
- Functions: Alternate / Momentary
- Terminals: Soldering or Plug-in
- Electrical Rating 250V AV 5A(VDE) 125V AC 8A
- Lighting: LED / Incandescent / Neon



ADA16C....

Ø16mm Selector Switches

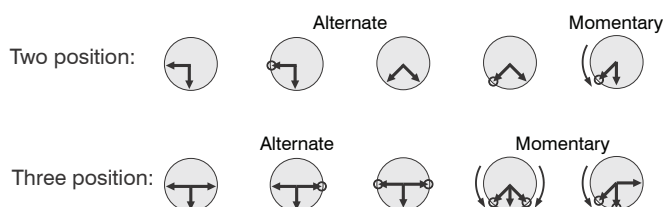
- Cutout: Ø16mm
- Head Shape: Standard
Square
Rectangular
Flange
- Available sizes: Rectangular - 18x24mm
Square - 18x18mm / 24x24mm (Flange)
Round / Standard - Ø18mm
- Degree of protection: Ip65
- Colour: Green, White, Black, Red, Blue or Yellow
- Functions: Alternate / Momentary
- Terminals: Soldering or Plug-in
- Electrical Rating 250V AV 5A(VDE) 125V AC 8A
- Lighting: LED / Incandescent / Neon



ADA16K....

Ø16mm Key Selector Switches

- Cutout: Ø16mm
- Head Shape: Standard
Square
Rectangular
Flange
- Available sizes: Rectangular - 18x24mm
Square - 18x18mm / 24x24mm
Round - Ø18mm
- Degree of protection: Ip65 soldering / plug-in
Ip40 plug-in
- Functions: Alternate / Momentary
- Terminals: Soldering or Plug-in
- Electrical Rating 250V AV 5A(VDE) 125V AC 8A



D16PL....

DECA

Ø16mm Indicator Pushbutton

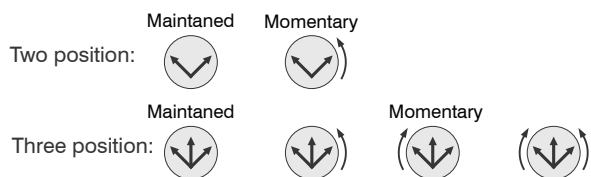
- Cutout: Ø16mm
- Shape: Round, Square or Rectangle
- Degree of protection: IP40 / Ip65
- Colour: Blue, Green, Blue, Red, White or Yellow
- Voltage: Lamp 14, 28, 48, 50 & 60 V AC/DC
 - : Neon 110, 220 V AC Red
 - : Flourescent 110, 220 V AC Green
 - : LED 12, 24 7 48 VAC/DC (6 chip)



C1C....

Ø16mm Selector Switches

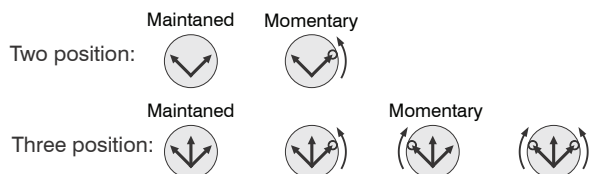
- Cutout: Ø16mm
- Shape: Round, Square or Rectangle
- Degree of protection: IP40 / Ip65
- Handle Colour: Blue, Green, Black, Red, White or Yellow
- Contacts: DPDT / SPDT
- Functions: Maintaned / Momentary



C1K....

Ø16mm Key Switches

- Cutout: Ø16mm
- Shape: Round, Square or Rectangle
- Degree of protection: IP40 / Ip65
- Key: Standard
- Contacts: DPDT / SPDT
- Functions: Maintaned / Momentary
- Key non-removable positions: (o)



D16....(Ø25mm metal/plastic ring)

DECA

Ø22mm Indicator Pushbutton

D16....(Ø29mm metal/plastic ring)

- Cutout: Ø22mm
- Switch head: Ø25mm or Ø29mm metal/plastic ring
- Illuminated or non-illuminated
- Contact: Soldering type
- Degree of protection: Ip65
- Body material: High grade temperature resistant thermoplastic
 - Contact housing electrical high grade thermoplastic
- Mechanical life: >2 million operations
- Functions: Momentary or alternate action 1-4 poles
- Electrical Rating: 250V AC 5A, 250V DC 0.2A, 125V AC 8A, 24V DC 6A



D16....(metal/plastic ring)

- Cutout: Ø22mm
- Switch head: Ø25mm & Ø29mm plastic or metal
- Lens Colour: Green, Red or Yellow
- Contact: Socket type
- Degree of protection: Ip65
- Body material: High grade temperature resistant thermoplastic
Contact housing electrical high grade thermoplastic
- Electrical Rating: 6V AC/DC 200mA, 14V AC/DC 80mA, 28V AC/DC 40mA



A01ES

A01ES-D series emergency stops is ergonomically designed for the users. With 4 actuator styles featuring a compact and modern design (dia.16mm), these emergency stops are safe and easy to operate (Push to shut-off, twist to release) and feature green locked/unlocked status indicators for a quick and easy visual status control. The A01ES-D series is certified EN60947-5-5 and is IP65 front sealed

- Cutout: φ16mm
- Single and double pole positive break
- Maximum current/voltage rating : AC-15, 1,5A 250VAC, 6A 250VAC
- Operating temperature : -20°C / +55°C IP65 front panel sealing
- Electrical and mechanical life : 6050 cycles

APEM

EMERGENCY STOP SWITCH



A01....

A range of 16mm panel mounting key switches and selector switches, available latching and momentary with custom engraved actuators, over moulded key and many accessories.

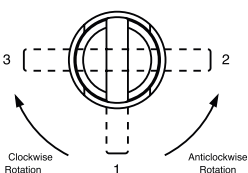
- Cutout: φ16mm
- Colour: Grey
- Current/Voltage: 10mA 5VAC min, 6A 250VAC, 6A 12VDC
- Panel sealed to Ip65
- Single pole to four pole changeover
- Push on tab terminals
- Environmental protection : Ip65
- Modular construction
- Electrical life : 50.000 cycles min.
- Screen engraving or insert-able legends on request
- Approvals: UL, VDE

SELECTION SWITCHES



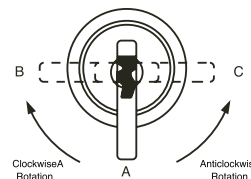
Operator			+		Switch block	
Pole	Bezel	Description	Short lever	Long lever	No of poles	Part No
1 or 2		2 pos. maintained	A019201	A019101	Single pole	A0151B
1 or 2		2 pos. momentary	A019202	A019102	Double pole	A0152B
3 or 4		2 pos. maintained	A019203	A019103	Three pole	A0155B
3 or 4		2 pos. momentary	A019204	A019104	Four pole	A0153B
1 or 2		3 pos. maintained	A019205	A019105		
1 or 2		3 pos. momentary	A019206	A019106		
1 or 2		3 pos. mainL, momR	A019207	A019107		
1 or 2		3 pos. momL, mainR	A019208	A019108		
1 or 2		2 pos. maintained	A019401	A019301		
1 or 2		2 pos. momentary	A019402	A019302		
3 or 4		2 pos. maintained	A019403	A019303		
3 or 4		2 pos. momentary	A019404	A019304		
1 or 2		3 pos. maintained	A019405	A019305		
1 or 2		3 pos. momentary	A019406	A019306		
1 or 2		3 pos. mainL, momR	A019407	A019307		
1 or 2		3 pos. momL, mainR	A019408	A019308		
1 or 2		2 pos. maintained	A019601	A019501		
1 or 2		2 pos. momentary	A019602	A019502		
3 or 4		2 pos. maintained	A019603	A019503		
3 or 4		2 pos. momentary	A019604	A019504		
1 or 2		3 pos. maintained	A019605	A019505		
1 or 2		3 pos. momentary	A019606	A019506		
1 or 2		3 pos. mainL, momR	A019607	A019507		
1 or 2		3 pos. momL, mainR	A019608	A019508		

Lever position



Operator			+		Switch block	
Pole	Bezel	Description	Part No.	Key removable	No of poles	Part No
1 or 2		2 pos. maintained	A018101	A-C	Single pole	A0151B
1 or 2		2 pos. momentary	A018102	A	Double pole	A0152B
3 or 4		2 pos. maintained	A018103	A-C	Three pole	A0155B
3 or 4		2 pos. momentary	A018104	A	Four pole	A0153B
1 or 2		3 pos. maintained	A018105	A-B-C		
1 or 2		3 pos. momentary	A018106	A		
1 or 2		3 pos. mainL, momR	A018107	A-B		
1 or 2		3 pos. momL, mainR	A018108	A-C		
1 or 2		2 pos. maintained	A018201	A-C		
1 or 2		2 pos. momentary	A018202	A		
3 or 4		2 pos. maintained	A018203	A-C		
3 or 4		2 pos. momentary	A018204	A		
1 or 2		3 pos. maintained	A018205	A-B-C		
1 or 2		3 pos. momentary	A018206	A		
1 or 2		3 pos. mainL, momR	A018207	A-B		
1 or 2		3 pos. momL, mainR	A018208	A-C		
1 or 2		2 pos. maintained	A018301	A-C		
1 or 2		2 pos. momentary	A018302	A		
3 or 4		2 pos. maintained	A018303	A-C		
3 or 4		2 pos. momentary	A018304	A		
1 or 2		3 pos. maintained	A018305	A-B-C		
1 or 2		3 pos. momentary	A018306	A		
1 or 2		3 pos. mainL, momR	A018307	A-B		
1 or 2		3 pos. momL, mainR	A018308	A-C		

Key position



**RXJL5** (Charcoal)

- Pilot Light with Faston terminals 2.8x0.8mm
- Lenses and nameplates (separate)
- Mounting diameter: Ø22.3 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Connection type: flat-plug connections
- Illumination: Yes
- Lamp socket: T5,5K
- With labelling option: Yes
- Front bezel: charcoal

**QXJL5** (Charcoal) / **QXJL5DG** (Black)

- Pilot Light with Faston terminals 2.8x0.8mm
- Lenses and nameplates (separate)
- Mounting diameter: 24x24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: Square
- Connection type: flat-plug connections
- Illumination: Yes
- Lamp socket: T5,5K
- With labelling option: Yes
- Front bezel: Charcoal / Black



PUSHBUTTON HEADS

QXDMDG IP67 (Charcoal)

- Short-stroke membrane Pushbutton Head
- with transparent silicone cap, down to -50 ± 0 C
- with illuminating option, blank nameplate included.
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip67
- Protection class: II (protective insulation)
- Shape: square
- Illumination: Yes
- Travel: 3 mm
- With labelling option: Yes
- Front bezel: charcoal

**RXJT** (Charcoal)

- Pushbutton Head
- Lenses and nameplates to be ordered separately
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: Ø 22.3 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Illumination: Yes
- Travel: 6 mm
- With labelling option: Yes
- Front bezel: charcoal

**QXT** (Black)

- Pushbutton Head
- 24 x 24 mm on request
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Illumination: Yes
- Travel: 6 mm
- With labelling option: Yes
- Front bezel: black

**QXJD** (Black) (Short-stroke pushbutton head)

- Lenses and nameplates to be ordered separately
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Illumination: Yes
- Travel: 3 mm
- With labelling option: Yes
- Front bezel: black

**QXJT** (Black)

- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip66
- Protection class: II (protective insulation)
- Shape: square
- Illumination: Yes
- Travel: 6 mm
- With labelling option: Yes
- Front bezel: black

**QXJD** (Black) (Short-stroke pushbutton head)

- Two prisms reflect the light from the center to a window at the edge of the lens.
- Lenses and nameplates to be ordered separately
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Illumination: Yes
- Travel: 6 mm with labelling option: Yes
- front bezel: black





KEY SWITCHES

RXJL5 (Charcoal)

- Including two keys, other lock types on request
- Mounting diameter: Ø 22.3 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Switching function: maintained action
- Illumination: No
- With labelling option: No
- front bezel: charcoal



RXJSSA-12E **RXJSSA-17E**

3 POS

2 POS



Withdrawn: All

Left

QXJSSA... (Charcoal)

- Including two keys, other lock types on request
- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Switching function: maintained action
- Illumination: No
- With labelling option: No
- Front bezel: black



QXJSSA-13E **QXJSSA-14E**

3 POS

2 POS



Withdrawn: Center

Top

QXJSSKA-17E

- Including two keys, other lock types on request
- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Switching function: maintained action
- Illumination: No
- With labelling option: No
- Front bezel: black



QXJSSA-17E

2 POS



Withdrawn: Left



SCHLEGEL boasts an extensive range of switches with varying features. Suitable for any application or specific requirement. For more info contact us or visit www.schlegel.com.sg.



EMERGENCY PUSHBUTTONS

QXV (Black)

- Cutout: φ16mm
- Rating: Ip65
- Contacts: See below
- Colour: Red



RXV (Charcoal)

- Cutout: φ16mm
- Rating: Ip65
- Contacts: See below
- Colour: Red

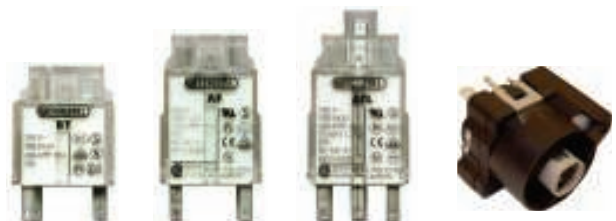


RXJV (Charcoal)

- Cutout: φ22mm (Flush mount)
- Rating: Ip65
- Contacts: See below
- Colour: Red



CONTACT BLOCKS





RXJL5 (Charcoal)

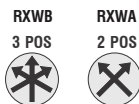
- Made of stainless steel V4A (1.4404)
- The housing edging is supplied in green-GN, red-RT, blue-BL, yellow-GB, black-SW, white-WS or charcoal-DG (clear luminous surface). Add code letter to type number, e.g. RVATL_RT.
- Category: Pushbutton Heads (momentary/push-push)
- Mounting diameter: Ø 22.3 mm
- Degree of protection: IP69K
- Protection class: II (protective insulation)
- Shape: round
- Illumination: Yes
- Travel: 6 mm
- With labelling option: No
- Front bezel: stainless steel, polished



SELECTOR SWITCHES

RX...

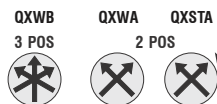
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Switching function: momentary action
- Illumination: No
- With labelling option: No
- Front bezel: charcoal



Spring return: None None

QX...

- 24 x 24 mm on request
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Switching function: momentary action
- Illumination: No
- With labelling option: No
- Front bezel: black



Spring return: None None Right

RXJ...

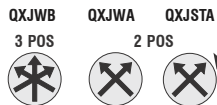
- Mounting diameter: Ø 22.3 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Switching function: maintained action
- Illumination: No
- With labelling option: No
- Front bezel: charcoal



Spring return: All None None

QXJ...

- Mounting diameter: 24 x 24 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: square
- Switching function: momentary action
- Illumination: No
- With labelling option: No
- Front bezel: black



Spring return: None None Right

KEY SWITCHES

RXSSA...

- Including two keys, other lock types on request
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Switching function: maintained action
- Illumination: No
- With labelling option: No
- Front bezel: charcoal



Withdrawn: Center Left

QXJD (Black) (Short-stroke pushbutton head)

- Key Actuator, momentary
- Mounting diameter: Ø 16 mm
- Degree of protection: Ip65
- Protection class: II (protective insulation)
- Shape: round
- Illumination: No
- With labelling option: No
- Front bezel: charcoal



Withdrawn: Top

The entire Schlegel range is far too big for us to put into our catalogue. They have an extensive range of products which have won many design awards. To view their entire range please visit their website : www.Schlegel.biz Schlegel products embody an extremely high standard of quality. Their certification of their quality assurance system as per ISO 9001 is confirmation of their desire to pursue the highest quality objectives & their success in doing so. Their quality motto is:

"If you stop trying to better yourself, you're no longer any good"

EMERGENCY STOPS



PUSHBUTTONS



SELECTOR AND KEY SWITCHES



BA..

XB2

Standard Flat Head Pushbutton

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BA11 - White N/O
BA21 - Black N/O
BA31 - Green N/O
BA42 - Red N/C
BA51 - Yellow N/O
BA61 - Blue N/O



BW...

Illuminated Pushbutton

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

Bw3161 - White, direct connect/
N/O, 6 - 380V
Bw3361 - Green, direct connect/
N/O, 6 - 380V
Bw3461 - Red, direct connect/
N/O, 6 - 380V
Bw3561 - Yellow, direct connect/
N/O, 6 - 380V
Bw3661 - Blue, direct connect/
N/O, 6 - 380V



BC42 / BR42

Emergency Stop Impulse

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BC42 - $\phi 40$, Red, N/C
BR42 - $\phi 60$, Red, N/C



BS...

Twist to Release

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BS442 - $\phi 30$, Red, N/C
BS542 - $\phi 40$, Red, N/C
BS642 - $\phi 60$, Red, N/C



BD..

Short Handle Sector Switch

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BD21 - 2-pos, stay put, N/O
BD33 - 3-pos, stay put, N/O + N/O
BD41 - 2-pos, impulse, N/O
BD53 - 3-pos, impulse, N/O + N/O



BJ..

Long Handle Sector Switch

- Operational temp: $-5^{\circ}\text{C}\approx+40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BJ21 - 2-pos, stay put, N/O
BJ33 - 3-pos, stay put, N/O + N/O
BJ41 - 2-pos, impulse, N/O
BJ53 - 3-pos, impulse, N/O + N/O



BG..

XB2

Key Switch

- Operational temp: $-5^{\circ}\text{C} \approx +40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BG21 - 2-pos, stay put, N/O
Bg33 - 3-pos, stay put, N/O + N/O
BG41 - 2-pos, impulse, N/O
Bg53 - 3-pos, impulse, N/O + N/O



BW...

Dual Illuminated Pushbutton

- Operational temp: $-5^{\circ}\text{C} \approx +40^{\circ}\text{C}$
- Power frequency withstand Voltage: 2500VAC, 1min
- Contact resistance: $\leq 50\text{m}\Omega$
- Mechanical durability: mom 1x10 / others 2.5 x 10
- Electrical durability: 5x10
- Degree of protection: IP40

BW8465
 Red & Green, N/O + N/C
 Direct connect
 6 - 380V
 (BA9S Lamp Holder)
 (See pg1.8 for LED options).



B1

- Operation hole: Single
- Operation diameter: 22mm
- Material: ABS
- Colour: Yellow/White & Dark Grey/White
- IP grade: IP65



B2

- Operation hole: Double
- Operation diameter: 22mm
- Material: ABS
- Colour: Yellow/White & Dark Grey/White
- IP grade: IP65



B3

- Operation hole: Triple
- Operation diameter: 22mm
- Material: ABS
- Colour: Yellow/White & Dark Grey/White
- IP grade: IP65



J1

- Operation hole: Single
- Operation diameter: 22mm
- Material: ABS
- Colour: Yellow & Black
- IP grade: IP65



BE...

Stackable Contact Blocks

Rating: 2.5A@380VAC
 4.5A@220VAC
 6A@110VAC
 0.3A@220VDC

BE101 - N/O Contact Block
BE102 - N/C Contact Block

L1...(contact blocks for control stations)

Rating: 2.5A@380VAC
 4.5A@220VAC
 6A@110VAC
 0.3A@220VDC

L1111 - N/O Contact Block
L1121 - N/C Contact Block



FEED THROUGH

TERMINAL BLOCKS



6mm

KUT 2.5
800V/24A/2.5sq mm/0.5Nm



6.7mm

KUT 4
800V/32A/4sq mm/0.5Nm



6mm

KUT 4N
800V/32A/4sq mm/0.5Nm



8mm

KUT 6N
800V/41A/6sq mm/0.8Nm



8/10/12mm

KUT6/10/16
800V/41A/6sq mm/0.8Nm
800V/57A/10sq mm/1.2Nm
800V/76A/16sq mm/1.2Nm



12mm

KUT 25
1000V/101A/25sq mm/2.3Nm



17mm

KUT 35
1000V/125A/35sq mm/3Nm



20.5mm

KUT 50
1000V/150A/50sq mm/8Nm



25mm

KUT 95
1000V/232A/95sq mm/20Nm

FUSE

ESKOM APPROVED



8mm

KUDF 4/D
800V/6.3A/2.5sq mm/0.4Nm



8mm

KUDDF 4D/A
630V/6.3AUT, 28A LT/
2.5sq mm/0.5Nm



12mm

KUF 10
1000V/12A/10sq mm/1.4Nm

DISCONNECTING



8mm

KULTD 6
800V/32A/6sq mm/1.0Nm



6mm

KULTD 4
800V/20A/4sq mm/0.6Nm



8mm

KSTD 6WS
800V/41A/6sq mm/0.8Nm



8mm

KUTSD 6
800V/38A/6sq mm/1.4Nm

"U" SERIES

EARTH



6.2mm

EBT 4
4sq mm/0.5Nm



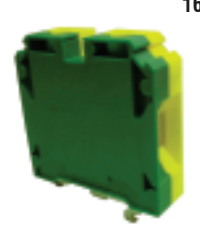
6.2mm

EBT 2.5
2.5sq mm/0.5Nm



8/10/12.5mm

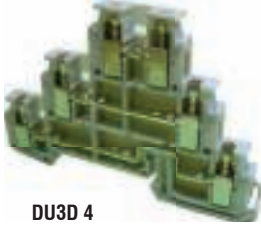




ET 6/10/16
6sq mm/0.8Nm 10sq/1.2Nm
16sq mm/1.2Nm



16.5mm

ET 35
35sq mm/3Nm

TERMINAL BLOCKS

MULTI LEVEL (TRIPLE DECK)	STUD TYPE	MICRO	POWER (BUS BAR)	
6mm	13mm	6mm	37mm	37mm
				
DU3D 4 500V/20A/2.5sq mm/0.5Nm	KBT M4/5 800V/76A/16sq mm/2Nm 1000V/57A/10sq mm/1.2Nm	SUT 4 500V/24A/2.5sq mm/0.5Nm	DPBC 70 1000V/192A/70sq mm/ 3.0/3.5(6.0)Nm Screwdriver(wrench)	DPBB 70/120 1000V/192A/70sq mm/3Nm Screwdriver 1000V/269A/120sq mm/6Nm Screwdriver

ACCESSORIES - End Plates/Barrier Plates

Elmex End Plates are mainly used to cover the last Terminal Block to insulate the live metal components. They are available for all types Terminal Blocks in standard and non standard colours.



Elmex Barrier Plates are used to isolate adjacent terminals electrically, so as to maintain the required creepage and clearance values. Apart from this function they are also used for identification and segregation of terminal groups.

TERMINAL TYPE	END PLATES	TERMINAL TYPE	END PLATES
KUT 2.5	KPNS	KUDF 4, KUDF 4A, KUDF 4D	EPDF
KUT 4, KST 4U WS, KUT 6, KUT 10	KP X	KUDDF 4, KUDDF 4A, KUDDF4 D	EPDDF
KST 6WS	KSP6WS	SUT 1.5	ES 2
KULT 1	KPSL	SUT 4	ES 4
KUT 16	KP Y	CET 4N	EP MN
KUT 25	KP T	NET 4	EP MN
KUDD 4	KPDD	MBT 4	MP1
KU2D 4, KUSD 4S	EPDD	UBT 2.5N, UBT 4, UBT 6, UBT 10	UP X
DU3D 4	DP3D	UBT 2.5N	UPNS
DUSD 4	DPSD	UBT 4 TWIN	UP TWIN
KUDT 4	EPDT	UBDD 4	UPDD
KUTSD 6	KPSD	DCC 2.5T	EPDCC 2T
KSTD 6WS	KPSDWS	DCC 4T	EPDCC 4T
KUTD 10	KPTD	DCC 6T	EPDCC 6T

TERMINAL TYPE	BARRIER PLATES	TERMINAL TYPE	BARRIER PLATES (With Foot)
KUT 2.5	KB M	KUT 2.5, KUT 4U WS, KUT 6	KBXF
KUT 4, KST 4U WS, KUT 6, KUT 10	KBX	KST 6U WS, KUT 10, KUDT 4	
KUT 16	KB Y	DBK 3, DBK 8, DBK 1X2, DBK 1X4	
KUT 25	KB T	DBK 1X8, FDBK 3, FDBK 8	
UBT 2.5N, UBT 4, UBT 6, UBT 10	UB X	FDBK 1X2, FDBK 1X8, ET 6, ET 10	
DCC 2.5T	PPDCC 2T	UBT 2.5N, UBT 4, UBT 6, UBT 10	
DCC 4T	PPDCC 4T	KULT 1, KUT 16, KUT 25, KUT 35	KBZF
DCC 6T	PPDCC 6T	KUDF 4, KUDF 4A, KUDF 4D, ET 16, ET 35	

END CLAMPS & MOUNTING RAILS

End Clamps: Also referred to as End Stoppers. Various types of End Clamps are available to suite different channels/din rail. End Clamps can also be used as "spacers" to increase creepage distance between two terminals. End Clamps are available in metallic & polyamide 66.

SCKN - 8mm **SCUN** - 9.5mm **SCUDD** - 10mm **SCUSL** - 8mm

Mounting Rail: Also referred to as Din Rail is available in standard 2000mm lengths. Standard Aluminium or Slotted Steel.



PUSHBUTTONS

YS-F...(Flat Head Non-Illuminated)

- Pushbutton: Flat Head
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: White, Black, Green, Red, Yellow, Blue



YS-H...(Protruding Head Non-Illuminated)

- Pushbutton: Flat Head
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Black, Green, Red, Yellow, Blue



YS-MS...(Mushroom Head Ø30mm Non-Illuminated)

- Pushbutton: Ø30mm Mushroom Head
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Red



YS-M...(Mushroom Head Ø37mm Non-Illuminated)

- Pushbutton: Ø37mm Mushroom Head
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Red



YS-KL...(Lockable Mushroom Head Non-Illuminated)

- Latching Mushroom Head automatically locked in the "in" position released with key
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Red



YS-MX...(Mushroom Head Ø50mm Non-Illuminated)

- Pushbutton: Ø50mm Mushroom Head
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Red



YS-PF...(Flat Head Illuminated)

- Illuminated Pushbutton: Flat Head
- 220V Neon Bulb
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Green, Red, Yellow, Blue, Clear



YS-PH...(Protruding Head Illuminated)

- Illuminated Pushbutton: Flat Head
- 220V Neon Bulb
- Cutout: Ø22mm
- Contact Blocks: 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- Degree of protection: Ip65
- Colours: Green, Red, Yellow, Blue, Clear



YS-D...(Selector Switch Short Handle)

- Selector Switch: Short Handle
- Cutout: Ø22mm
- Contact Blocks: 2P - 1N/O+1N/C, 2N/O+2N/C 3P - 2N/O, 4N/O
- Degree of protection: Ip65
- Colours: Black, Green, Red,



YS-J...(Selector Switch Long Handle)

- Selector Switch: Long Handle
- Cutout: Ø22mm
- Contact Blocks: 2P - 1N/O+1N/C, 2N/O+2N/C 3P - 2N/O, 4N/O
- Degree of protection: Ip65
- Colours: Black, Green, Red,



YS-K...(Key Switch)

- Key switch
- Cutout: Ø22mm
- Contact Blocks: 2P - 1N/O+1N/C, 2N/O+2N/C 3P - 2N/O, 4N/O
- Degree of protection: Ip65
- Colours: Black, Green, Red,



Contact Blocks

- C-22: Standard 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C
- UC-22: Universal 1N/O+1N/C, 2N/O, 2N/C, 2N/O+2N/C, 4N/O
- P-22: Lamp Holder Ba9's 1N/O+1N/C, 2N/O+2N/C, 3N/O+3N/C



AR series controlling switch, it is possible to apply 2 types (Ø22 / Ø25) panel cutout dimension and in case of using the guide bracket, it is even possible to use it with the Ø30 hole. Various functions and designs have made the selection choice wider and attachment and detachment of the actuator/switch part became very simple.

ARP-F

- Cutout: Ø22mm
- Actuator Type: Flush
- Lamp Voltages: 110 or 220V AC with transformer
Direct Lamp holder for other voltages
- Colours: Red, Green, Yellow, Blue or White



ARP-R

- Cutout: Ø22mm
- Actuator Type: Roulette
- Lamp Voltages: 110 or 220V AC with transformer
Direct Lamp holder for other voltages
- Colours: Red, Green, Yellow, Blue or White



NON-ILLUMINATED PUSHBUTTONS

ARF-F (FULL GUIDE)

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or Black



ARF-B (RUBBER COVER)

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or Black



ARF-P (PROTRUDING ACTUATOR)

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or Black



ARF-G (FULL-GUIDE) PROTRUDING ACTUATOR

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or Black



ARF-H (HALF-GUIDE) PROTRUDING ACTUATOR

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or Black



ARF-S (PUSHBUTTON SELECTOR SWITCH)

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Black



ILLUMINATED PUSHBUTTONS

ARX-P Protruding Actuator

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red or Green



ARX-G (Full-Guide) Protruding Actuator

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100MΩ min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or White



AR series controlling switch, it is possible to apply 2 types ($\varnothing 22 / \varnothing 25$) panel cutout dimension and in case of using the guide bracket, it is even possible to use it with the $\varnothing 30$ hole. Various functions and designs have made the selection choice wider and attachment and detachment of the actuator/switch part became very simple.

ARX-H (Half-Guide) Protruding Actuator

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green or Yellow

**SELECTOR SWITCHES****ARS-L (Long handle)**

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green or Yellow

**ARS-S (Short handle) Non-Illuminated**

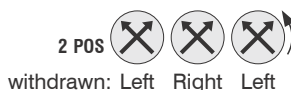
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green or Yellow

**ILLUMINATED SELECTOR SWITCH****ART (Short handle) Illuminated**

- Cutout: $\varnothing 22$ mm
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green or Yellow
- Lamp Voltages: 110 or 220V AC with a transformer
Or direct lamp holder for other voltages

**KEY SWITCH****ARK (Key switch)**

- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green or Yellow

**EMERGENCY PUSHBUTTON HEADS****ARE-3B (Momentary)**

- Cutout $\varnothing 22$ mm
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**ARE-4B (Momentary)****ARE-4P (Push Lock, Pull Reset)**

- Cutout $\varnothing 22$ mm
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red, Green, Yellow, Blue or White



AR series controlling switch, it is possible to apply 2 types ($\varnothing 22$ / $\varnothing 25$) panel cutout dimension and in case of using the guide bracket, it is even possible to use it with the $\varnothing 30$ hole. Various functions and designs have made the selection choice wider and attachment and detachment of the actuator/switch part became very simple.

ARE-6B (Momentary)**ARE-6P (Push lock, Pull reset)**

- Cutout $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**TURN RESET EMERGENCY PUSHBUTTON HEADS****ARE-3R (Push Lock, Turn Reset)**

- Cutout $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**ARE-4R (Push Lock, Turn Reset)**

- Cutout $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**ARE-6R (Push Lock, Turn Reset)**

- Cutout $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**KEY RESET EMERGENCY PUSHBUTTON HEADS****ARE-4K (Push lock, Key Reset)**

- Cutout: $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red

**ARE-6K (Push Lock, Key Reset)**

- Cutout: $\varnothing 22\text{mm}$
- Rated voltage: 500V a.c. 50/60Hz
- Rated current: 5A 250V 50/60Hz
- Applying categories: AC-12, AC-13, AC-14, AC-15
- Insulation resistance: 100M Ω min
- Dielectric strength: 2000V a.c. for 1min
- Colours: Red



SMA1 (28mm Flat) / **SMA2** (28mm Recessed)

PIEZO SWITCHES

NON ILLUMINATED

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm flat or recessed actuation area. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24 AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 M Ω
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity

**SBS1** (24mm Flat) / **SBS2** (24mm Recessed)

Touch Metal Piezo Switch, 19mm mounting diameter, M19x1 thread, 24mm flat or recessed actuation area. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24V AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 M Ω
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity

**SMF1** (18mm Flat) / **SMF2** (18mm Recessed)**SMF4** (21x21 Recessed) / **SMF5** (22mm flat)**SMF6** (19 mm Flat)

Touch Metal Piezo Switch, 16mm/18mm mounting diameter, M16x1/M18x1 thread, 18/19/22/21x21mm round/square flat or recessed actuation area. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24 AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 M Ω
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity

**SML1** (28mm Flat) / **SML2** (28mm Recessed)

Dot Illuminated

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm flat or recessed actuation area, point illuminated with single or bi-color LEDs (5, 12 or 24V). Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24 AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 M Ω
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity



SBR1(25mm flat) / **SBR2**(25mm recessed)

PIEZO SWITCHES

RING ILLUMINATED

Touch Metal Piezo Switch, 22mm mounting diameter 22×1.5mm thread, 25mm flat or recessed actuation area, ring illuminated with multi-color RGB LEDs (12 or 24V). Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24V AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 MΩ
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity

**SBR3**(31mm flat) / **SBR4**(31mm recessed)

Touch Metal Piezo Switch, 27mm mounting diameter 27×1.5mm thread, 31mm flat or recessed actuation area, ring illuminated with multi-color RGB LEDs (12 or 24V). Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function – N.O. Momentary
- Switch Voltage – 0-24V AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 MΩ
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Pulse Duration -125-300mS
- Contact Configuration – Free polarity

**SBA1**.(Flat) / **SBA2**.(Recessed)

Special Function

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm flat or recessed actuation area with either continuous (SBA1/2C) or toggle (SBA1/2T) function. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function SBA1C Continuous N.O. up to 30sec std.
- Switch Function SBA1T Toggle On/Off Alternating
- Switch Voltage – 1-24V AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 MΩ
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Contact Configuration – Free polarity

**SBF1**.(Flat) / **SBF2**.(Recessed)

Touch Metal Piezo Switch, 18.6mm mounting diameter, PG-11 thread, 22mm flat actuation area with either continuous (SBF1/2C) or toggle (SBF1/2T) function. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

- Switch Function SBF1C Continuous N.O. up to 30sec std.
- Switch Function SBF1T Toggle On/Off Alternating
- Switch Voltage – 1-24V AC/DC
- Switching Current – 0.2A std (0.5A option)
- Rated Breaking Capacity – 1W
- Operating Cycles – >50,000,000
- Switch Resistance OFF – > 5 MΩ
- Switch Resistance ON – < 20 Ω
- Capacity – 30 pF
- Contact Configuration – Free polarity





S - Normally Stock
L - Limited Stock
O - Ex Order

**FRMC 6 (Miniature Control Switch)****FRMC 6 (Key Operated Switch)**

The FRMC 6 series miniature switches are used in all types of auxiliary circuits to connect and disconnect relays, measuring instrument, etc... Thanks to the special construction features they can also be used in hostile environmental and climatic conditions. The limited dimensions make for minimal occupation of space both inside and on the front of the panel.

- Available in Spring Return or Stay-put Positions.
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- Silver (STANDARD) or Gilded plated contacts.
- High Mechanical strength, main shaft, frame and plate made in steel.
- High Resistance Electrolytic treatment of the ferrous components suitable for Tropical Applications.
- Terminals Screws with easy access from the rear of the Switch.
- Can have from 2 to 8 positions Fixed or with automatic return.
- Up to 12 Packets of contacts can be assembled.
- Suitable for Pin Lugs – fork and Ring type Terminals.

Key Operated Specific features:

- This is used when it is essential to prevent activation by non-authorized staff.
- Up to 12 packets of contacts can be assembled with various key extraction systems.
- Equipped with RONIS lock available all with the same numbering, all with different numbering or different in groups.

**FRMC 6 IP20 (Finger Proof protection)**

- Available as Miniature Control Switch or Key Operated Switch.
- 48x48mm front plate variant available for all models.
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- IP20 Finger Proof terminals in According to standard IEC 60529.
- High Mechanical strength, main shaft, frame and plate made in steel.
- Terminals Screws with easy access from the rear of the Switch.

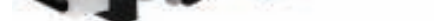
FRMM 6 (Miniature Discrepancy Control Switch)

These have the same function as the FRM10 discrepancy switches but are used with low currents and voltages. They are easy to adapt to the various mosaic systems. The limited dimensions make for minimal occupation of space both inside and on the front of the panel.

- Turn - Push to Turn
- The luminous signal is provided by an incandescent bulb or LED with a BA7s bayonet connector in various colours (white, yellow, red, green or the colour to order).
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- High Mechanical strength, main shaft, frame and plate made in steel.
- High Resistance Electrolytic treatment of the ferrous components suitable for Tropical Applications.
- Terminals Screws with easy access from the rear of the Switch.

**FRMM 6 IP20 (Finger Proof protection)**

- Turn - Push to Turn
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- IP20 Finger Proof terminals in According to standard IEC 60529.
- High Mechanical strength, main shaft, frame and plate made in steel.
- High Resistance Electrolytic treatment of the ferrous components suitable for Tropical Applications.
- Terminals Screws with easy access from the rear of the Switch.

**FRMM 6 IP20 (Opaline Handle increased visibility)**

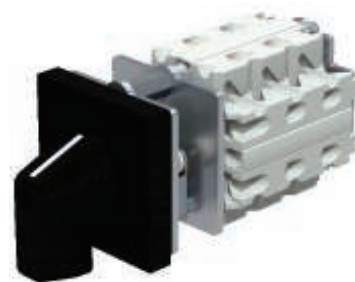
R16 (Miniature Control Switch)

S - Normally Stock
L - Limited Stock
O - Ex Order

**CONTROL SWITCH****R16** (Key Operated Switch)

The Control switch series "R16" keep the same features of the previous models Comeletic, but in a smaller size. The small size of the Control Switch allow the fixing even in applications where there's a minimum depth.

- Available in Spring Return or Stay-put Positions.
- From 2 to 8 position Stay put or Spring return Type.
- Can be Mounted up 23 Decks of Contacts.
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- IP20 Finger Proof terminals in According to standard IEC 60529.
- High Mechanical strength, main shaft , frame and plate made in steel.
- High Resistance Electrolytic treatment of the ferrous components suitable for Tropical Applications.
- Easy access to the Screws of Each terminals even when the Switch is Wired , for the maintenance operations.

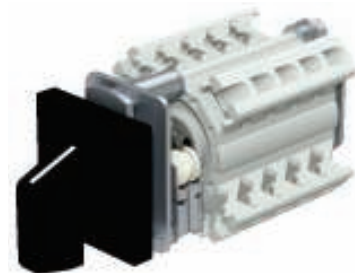
**R20** (Control & Load Switch)**R20** (Key Operated Switch)**R20** (Pad-lockable Handle)**R20** (Pistol Grip)

Control switch with IP20 protected terminal, easy access to the contacts during wiring operations. It summarizes the best features of oldest switches FR10 and FR10 Ip20. Thermal Current (Ith) 25 Ampere. They are easy to adapt to the various mosaic systems. The limited dimensions make for minimal occupation of space both inside and on the front of the panel.

- Available in Spring Return or Stay-put Positions.
- It can have from 2 to 8 positions fixed or with automatic return.
- It may be supplied with frontplate size 48X48mm (Q4) or 64X64mm (Q7).
- Self-Cleaning Blade Wiping Action Contacts System, suitable for being used also in highly aggressive environments.
- Shocks and Vibrations Proof, due to the contacts design.
- IP20 Finger Proof terminals in According to standard IEC 60529.
- High Mechanical strength, main shaft , frame and plate made in steel.
- High Resistance Electrolytic treatment of the ferrous components suitable for Tropical Applications.
- Easy access to the Screws of Each terminals even when the Switch is Wired , for the maintenance operations.

- Switch with pad-lockable handle.
- Pushing the red barrel in the handle, the switch can be locked in the desired position by inserting up to three padlocks.

- Switch with pistol knob.
- It may have from 2 to 8 positions fixed or with automatic return.
- It can be supplied with front plate 48X48mm (Q4) or 64X64mm (Q7).

CONTROL AND LOAD SWITCH

MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

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AVIATION LIGHTING



HELIPAD PERIMETER OR AIRFIELD SIDE



INSET LIGHTS HELIPAD AND AIRFIELD



PORTABLE HELIPAD LANDING KIT



HELIPAD ID BEACON WITH MORSE H



MARINE BEACON



HELIDECK



EXPLOSION PROOF

OBSTRUCTION



PERIMETER EDGE FLOOD LIGHT



AIRFIELD SOLAR SIDE LIGHTS



OBSTRUCTION LIGHTS SINGLE AND DOUBLE VARIOUS VOLTAGES AND SOLAR



AUDIBLE & VISUAL



SKTL

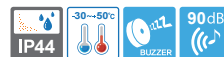


LED Strobe Signal Light and Electric Horn Combinations



QWCD35

QWCD50



S180...



QT50L/ QT50ML QT70L/ QT70ML



LED Modular Tower Lights



Steel Housing Electric Horn/Heavy Industrial

105dB SN Range



SANA400

Airhorns for Vessels and Heavy Industrial Applications



SM400

123dB Motorised Siren



SANA200



Multiple Colour LED Steady/ Flashing Signal Lights



SMCL

KIB138 PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

COMMERCIAL AND FIRE

- Colour: Black
- Material of Case: ABS
- Ambient operating temperature: -20°C to +60°C

Model	Output	Tones	Voltage	Current	Protection
MBS-05	85dB	Single Tone	DC5V	0.03A	N/A



KIB18 MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Lead

Model	Output	Tones	Voltage	Current	Protection
1S306L	85dB	Single Tone	DC6V	0.035A	N/A



KIB28 MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Pin or Lead

Model	Output	Tones	Voltage	Current	Protection
2S312OP (Pin) 2S312OL (Lead)	95dB	Single Tone	DC12V	0.040A	N/A



KIB38 LOW COST PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Ivory
- Materials : Stainless Steel Piezo Element, Housing- Fire Retardant ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Pin or Lead

Model	Output	Tones	Voltage	Current	Protection
3S312LE	105dB	Single Tone	DC12V	0.030A	N/A
3S312P	105dB	Single Tone	DC12V	0.030A	
3S312L	105dB	Single Tone	DC12V	0.030A	
3S324L	100dB	Single Tone	DC24V	0.020A	
3P312L	100dB	Pulse Tone	DC12V	0.020A	



KIB78 SHRIKE PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Cutout: Ø19mm
- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Lead

Model	Output	Tones	Voltage	Current	Protection
7S3120L	95dB	Single Tone	DC12V	0.015A	N/A
7P3120L	90dB	Single Tone	DC12V	0.010A	
7D3240L	90dB/95dB	Single/Pulse Tone	DC24V	0.020A	



KIB98 MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Pin or Lead

Model	Output	Tones	Voltage	Current	Protection
9S324L	85dB	Single Tone	DC24V	0.008A	N/A
92312P	85dB	Single Tone	DC12V	0.008A	
13S412P	85dB	Single Tone	DC12V	0.030A	



KIB98 MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

COMMERCIAL AND FIRE

- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Pin Type: EX Indent
- Terminal: Lead



Model	Output	Tones	Voltage	Current	Protection
9S324L	85dB	Single Tone	DC24V	0.008A	N/A
9S312P			DC12V	0.008A	
13S412P			DC12V	0.030A	

KIB278 PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Lead



Model	Output	Tones	Voltage	Current	Protection
27PN3120	105dB	Pulse Tone	DC12V	0.045A	N/A

FM-12HB-907 PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Cutout: Ø31mm
- Colour: Black
- Materials : Housing-ABS
- Ambient operating temperature : -20°C to +60°C
- Terminal: Screw for Lug



Model	Output	Tones	Voltage	Current	Protection
FM-12HB-907	90dB	Single Tone Pulse Tone	DC12V	0.010A	N/A

BLACKBIRD PIEZO BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Cutout: Ø30mm
- Colour: Black
- Robust construction AQ Military Standard
- Panel Mounted Piezo Buzzer
- Japanese Stainless Steel Piezo Element
- Medium to Loud sound output ideal for control Room Alarms
- Material of case: Nylon
- Terminals: Industrial screw for lug or remove screw to fit 6.3mm fast-on



BPM-12D to BPM-48B



BPM-110A & BPM-220A

Model	Output	Tones	Voltage	Current	Protection
BPM-12D	100dB	Single Tone	DC12V	0.030A	N / A
BPMS-12B	80dB	Single Tone	AC/DC12V	0.030A	
BPM-24D	80dB	Pulse Tone	DC24V	0.022A	
BPM-24B	80dB	Pulse Tone	AC/DC24V	0.022A	
BPMS-24D	80dB	Single Tone	DC24V	0.022A	
BPM-32B	80dB	Pulse Tone	AC/DC32V	0.022A	
BPMS-32B	80dB	Single Tone	AC/DC32V	0.022A	
BPM-48B	80dB	Pulse Tone	AC/DC48V	0.022A	
BPM-110A	80dB	Pulse Tone	AC/DC110V	0.010A	
BPM-220A	80dB	Pulse Tone	AC/DC220V	0.010A	
BPMS-220A	80dB	Single Tone	AC/DC220V	0.010A	



BPM-125D Panel Mount

Model	Output	Tones	Voltage	Current	Protection
BPM-125D Panel Mount	80dB	Pulse Tone	DC125V		N/A

KIB MBS MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

COMMERCIAL AND FIRE

- Colour: Black
- Material of Case: ABS or Nylon SEI-GFN2
- Ambient operating temperature: -20°C to +60°C



Model	Output	Tones	Voltage	Current	Protection
MBS-05 MBS-12	85dB	Single Tone	DC5V DC12V	0.03A 0.03A	N/A

KIB168 PIEZO TRANSDUCER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Material of Case: Nylon
- Ambient operating temperature: -20°C to +60°C



Model	Output	Tones	Voltage	Current	Protection
16PZ320	95dB	Single Tone	DC9V	0.015A	N/A

KIB208 MAGNETIC BUZZER



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Material of Case: ABS
- Ambient operating temperature: -20°C to +60°C



Model	Output	Tones	Voltage	Current	Protection
20S1091 20S1120	75dB	Single Tone Single Tone	DC9V DC12V	0.015A	N/A

MIGHTY MIDGET



S - Normally Stock
L - Limited Stock
O - Ex Order

- Colour: Black
- Material of Case: ABS
- Ambient operating temperature: -20°C +60°C
- Terminal: UL WIRE #1007 24AWG
- Connection: Grey (+) & BLACK (-)



Model	Output	Tones	Voltage	Current	Protection
30S312L 30T312L	100dB	Single Tone Two Tone	DC12V	0.15A	N/A

SD60ADH



S - Normally Stock
L - Limited Stock
O - Ex Order

Qlight



- Elegant wall mounted buzzer horn
- Horn resonance structure gives the product low power consumption and high sound tone
- Cone sound diffusion structure provides wide & excellent signal sound • transmission effect
- Sound volume : Max. 100dB at 1m
- Ambient operating temperature : -25°C to +50°C
- Protection rating : Ip54
- Certificates : CE Compliant



Model	Output	Tones	Voltage	Current	Protection
S60ADH	100dB	1 Buzzer Tone	DC12V DC24V AC110V AC220V	0.083A 0.042A 0.016A 0.008A	IP54

HAWK - HPM....



S - Normally Stock
L - Limited Stock
O - Ex Order



INDUSTRIAL



- Cutout: ø26mm
- Colour: Red
- Volume control
- High sound output, 101dB @ 1 metre.
- Continuous & pulsed modes.
- Protection rating: IP 65
- Panel mounted.
- Low current consumption (8mA on 12V DC & 18mA on 24V DC).
- Weather protection (achieved by complete encapsulation of the electronic circuit)

Model	Output	Tones	Voltage	Current	Protection
HPM	92dB	32	DC12V DC24V	0.008A 0.018A	IP65



EAGLE - EBM....



S - Normally Stock
L - Limited Stock
O - Ex Order



Very loud & continuously rated. It is far superior to the wind-up mechanical version in that it cant jam up with dust or burn out. The EAGLE has 32 different tones, switch selectable, and multiple units can be synchronised to WOOP together.

- Materials : Housing-ABS
- Enhanced output on six key tones
- Compatible with standard RoLP
- Volume Control 10dB
- Automatic Synchronisation
- Volume control
- Second tone for two stage alarms
- Lock-able base
- Ambient operating temperature : -25°C to +70°C
- Monitoring: Reverse polarity
- Color : Red

Model	Output	Tones	Voltage	Current	Protection
EBM	107dB	32	DC12V DC24V AC240V	0.008A 0.018A 0.035A	IP54 Shallow Base IP65 Deep Base



Shallow Base



Deep Base



POWERED BASE

The Powered Deep Base incorporates a small 24Vdc supply that allows any of the compatible Fulleon sounders and Beacons to be operated from 110 or 230 Vac supplies.

- Wide input voltage range
- Suitable for external use
- Compatible with: RoLP, RoLP Solista, Flashni, Solex 3/10, Solista
- Ambient operating temperature : -25°C to +70°C
- Input Voltages: AC86V - AC264V @ 50-60Hz
- Output Voltage: DC24V
- Output Current: 0.1A
- Protection: IP65



ASTOUNDER - ASTBM-24D



S - Normally Stock
L - Limited Stock
O - Ex Order



- High sound output 105dB@1metre
- Low current consumption
- 16 user selectable tones
- Automatic synchronisation
- Volume control
- Ip43 (Ip65 with conduit base)
- Override tone & custom tones
- Shallow or Deep base options
- Colour: Red or White

Model	Output	Tones	Voltage	Current	Protection
ASTBM-24D	105dB	16	DC12V DC24V	0.013A 0.020A	IP43 IP65



ASSERTA MINI (105dB SOUNDER)S - Normally Stock
L - Limited Stock
O - Ex Order

INDUSTRIAL



The most compact sounder in the Asserta Range, the Asserta Mini Sounder/Beacon (S/B) is a rugged unit with a high IP rating. Suitable for use in harsh environments, its low current consumption and optional integrated beacon adapt it well to either fire systems or use as a general signalling device in industrial applications. Where the Mini is used in secure applications there is an option to add a tamper switch so that any interference with the unit can signal an alarm to a security panel.

- 32 Tones
- Wide operating voltage
- IP66 protection
- Compact enclosure
- Ideal for all general signalling applications
- Adaptable to all types of installation
- Suitable for harsh environments
- Can be used even in cramped spaces
- Material: ABS
- Colours: Red / Grey
- Alarm stages: 2



Model	Output	Tones	Voltage	Current	Protection
ASSERTA MINI	105dB	32	DC9V-60V AC110-230V	0.013A 0.020A	IP66

ASSERTA MIDI (108 - 112dB SOUNDER)S - Normally Stock
L - Limited Stock
O - Ex Order

The Asserta Midi Sounder is a versatile, compact unit that has been designed for industrial environments or areas where there is a requirement for a robust alarm. Available for use in a wide range of fire and process systems.

- 112dB(A) output
- 32 Tones
- Robust design with Ip66 protection
- For Fire and general signalling use
- Large Range of Tone options
- Signal for different Alarm levels
- For demanding environments
- Material: ABS
- Colours: Red / Grey
- Alarm stages: 2



Model	Output	Tones	Voltage	Current	Protection
ASSERTA MIDI	108dB 112dB	32	DC9V-60V AC24V AC115-230V	0.024A 0.023A 0.012A	IP66

ASSERTA MAXI (120dB SOUNDER)S - Normally Stock
L - Limited Stock
O - Ex Order

The Asserta Maxi sounder is designed to cope in harsh environments and gives protection for water ingress Ip66. Designed to ensure safer and easier installation, while providing flexibility with fewer product variants.

- Powerful 120dB(A) output
- 3 stage alarm and time out function
- 42 alarm tones
- Robust design with IP66 protection
- Maximum sound output for high noise environments
- 3 levels of alarm for differing warning states
- Large range of tone options
- For demanding environments in non-hazardous areas
- Material: ABS
- Colours: Red / Grey
- Alarm stages: 3



Model	Output	Tones	Voltage	Current	Protection
ASSERTA MAXI	110dB 120dB	42	DC18V-28V AC115V-230V	0.105A@DC24V 0.45A@DC24V 0.04A@AC230V 0.065A@AC230V	IP66

QWH35 (115dB SOUNDER)

S - Normally Stock
L - Limited Stock
O - Ex Order



INDUSTRIAL

QWH50 (123dB SOUNDER)



Wall mount electric horn that offers 31 pre-recorded warning sounds and 31 user selected sound messages

- Bit input offers 5 channels with 6 sound outputs
- Binary input offers 30 sound outputs and SD card (MP3) combination
- Options to select between 31 special warning sounds included in the pre-recorded sound type and SDcard (MP3) type
- Volume adjustment and sound selection switches located inside the unit.
- SDcard type allows the user to input the proper voice messages for specific operating conditions.
- The SDcard type 31 Special alarms built in which includes the voice alert from the SDcard (Mp3). 31 special warning sounds are built both in pre-recorded sound type and SDcard type
- Offers both Binary and Bit input mode options (only the SDcard type has the bit input)
- Materials : Horn-PC, Housing-ABS
- Ambient operating temperature : -30°C to +50°C
- Certificates : CE Compliant
- Compliant with RoHS directive



QWH35 series

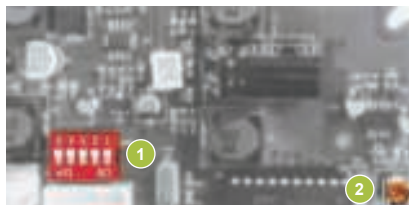


QWH50 series

Model	Output	Tones	Voltage	Current	Protection
QWH35	Special Warning 115dB	31(pre-recorded) 31(user-selectable)	DC12V-24V AC110V-220V	Max 0.800A Max 0.290A	IP66
QWH35SD	Mp3 Sound 113dB				
QWH50	Special Warning 123dB		DC12V DC24V AC110-220V	1.800A 1.000A Max 0.600A	
QWH50SD	Mp3 Sound 118dB				



Pre-recorded sound type



- 1 Switch for channel selection
- 2 Switch for volume adjustment

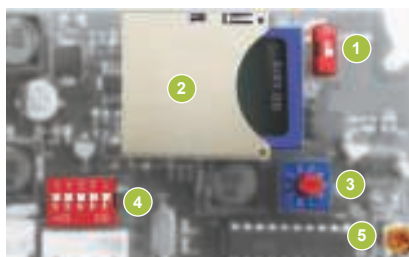
The input method of built-in sound type

	1	2	3	4	5
ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No.	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
:	:	:	:	:	:
31	1	1	1	1	1

Select from 31 pre-recorded output sound options by using a combination of the 5 channel input switches.

The binary input method allows you to express each of the 31 alarm sound signals with a "0" or "1" by switching the 5 channels on and off as shown in the table.

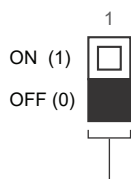
SDcard (MP3) type



- 1 Switch for sound pattern selection
- 2 SDcard slot for MP3
- 3 Switch for play mode selection
- 4 Switch for channel selection
- 5 Switch for volume adjustment

Sound selection instruction for SDcard type

You can select between pre-recorded sound mode and SDcard sound (MP3) mode with the SOUND selection switch.



Selection between pre-recorded sound mode and SDcard sound mode
0 : pre-recorded sound mode
1 : SDcard sound mode

- 31 built-in alarm sounds and special sound
- Supports SDcards for external sound (MP3)
- Binary Input : 31Ch
- Bit Input : 5Ch(SDcard only)
- A versatile product that can play MP3 files via the SD card
- Channel 1 is set as the factory default

SRN...



S - Normally Stock
L - Limited Stock
O - Ex Order



INDUSTRIAL



- Cost effective model with high signal sound
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- User defined voice signal type(WV) shall be provided upon request
- Can adjust sound volume with the switch built inside the unit
- Materials : Housing-ABS(Standard Color : Red)
- Ambient operating temperature : -25°C to +50°C
- Certificates : CE Compliant



Model	Output	Tones	Voltage	Current	Protection
SRN	108dB	5 Warning Sounds	DC12V	0.322A	IP55
	108dB	5 Melodies	DC24V	0.233A	
	105dB	5 Alarms	AC110V	0.073A	
	98dB	5 Customisable Sounds	AC220V	0.036A	

SEN15...



S - Normally Stock
L - Limited Stock
O - Ex Order

SEN25...



- General Electric Horn
- Cost effective model with high signal sound
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- User defined voice signal type(WV) shall be provided upon request
- Can adjust sound volume with the switch built inside the unit
- Materials : Housing-ABS
- Color : Red
- Ambient operating temperature : -25°C to +50°C
- Protection rating : Ip55
- Certificates : CE Compliant



Model	Output	Tones	Voltage	Current	Protection
SEN15	108dB	5 Warning Sounds	DC12V	0.366A	IP55
	108dB	5 Melodies	DC24V	0.266A	
	105dB	5 Alarms	AC110V	0.077A	
	98dB	5 Customisable Sounds	AC220V	0.038A	
Model	Output	Tones	Voltage	Current	Protection
SEN25	115dB	5 Warning Sounds	DC12V	2.211A	IP55
	115dB	5 Melodies	DC24V	1.022A	
	113dB	5 Alarms	AC110V	0.226A	
	108dB	5 Customisable Sounds	AC220V	0.113A	

SEHN25... (HEAVY DUTY)



S - Normally Stock
L - Limited Stock
O - Ex Order

SEHN50... (HEAVY DUTY)

HEAVY DUTY INDUSTRIAL



- Electric Horn Vessel for heavy Industria applications
- Steel housing provides excellent vibration and shock resistance under seismic conditions
- A variety of sound selections between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- Can adjust sound volume with the switch built inside the unit
- Materials : Housing-Steel, Horn housing -Steel
- Housing standard color : Red
- Ambient operating temperature : -25°C to +50°C
- Suitable for outdoor installation
- Certificates : KIMM Compliant



Model	Output	Tones	Voltage	Current	Protection
SEHN25	115dB	5 Warning Sounds	DC12V	2.211A	IP55
	115dB	5 Melodies	DC24V	1.022A	
	113dB	5 Alarms	AC110V	0.226A	
	108dB	5 Customisable Sounds	AC220V	0.113A	
Model	Output	Tones	Voltage	Current	Protection
SEHN50	120dB	5 Warning Sounds	DC12V	2.440A	IP55
	120dB	5 Melodies	DC24V	1.186A	
	118dB	5 Alarms	AC110V	0.244A	
	115dB	5 Customisable Sounds	AC220V	0.122A	

SEWN30E... (WALL MOUNT)

S - Normally Stock
L - Limited Stock
O - Ex Order



HEAVY DUTY INDUSTRIAL

SEWN50E... (WALL MOUNT)



- Electric horn with tightly sealed structure has excellent durability.
- Suitable for vessels, steel industry, and outdoor plant applications
- Aluminum housing provides excellent durability
- A variety of sound selection between warning sounds, alarm sounds, melodies and voice messages to fit your sophisticated application needs
- Can adjust sound volume with the dial built inside the unit
- Terminals located inside the terminal box or product
- Cable entry : 1/2"PF
- Materials : Housing-AI, Horn housing-PC/ STS316L
- Standard Housing color : MUNSSELL No. 7.5BG 7/2
- Ambient operating temperature : -30°C to +50°C
- Suitable for outdoor installation
- Certificates : KIMM, ABS, CCS, CE Compliant



Model	Output	Tones	Voltage	Current	Protection
SEWN30E	118dB	5 Warning Sounds	DC12V	2.211A	IP56
	118dB	5 Special Warning Sounds	DC24V	1.022A	
	118dB	5 Melodies	AC110V	0.226A	
	116dB	5 Alarms	AC220V	0.113A	
	113dB	5 Customisable Sounds			
Model	Output	Tones	Voltage	Current	Protection
SEWN50E	120dB	5 Warning Sounds	DC12V	2.440A	IP56
	120dB	5 Special Warning Sounds	DC24V	1.186A	
	120dB	5 Melodies	AC110V	0.244A	
	118dB	5 Alarms	AC220V	0.122A	
	115dB	5 Customisable Sounds			

DB3 (EXPLOSION PROOF)

S - Normally Stock
L - Limited Stock
O - Ex Order



A lightweight flameproof sounder, the DB3 is constructed from corrosion resistant GRP and has been designed with a high level of ingress protection to cope with the harsh conditions typically found in offshore and exposed onshore environments.

- Exde, Zone 1 and Zone 2 use
- High output up to 118dB(A)
- 27 alarm tones
- IP66/67 protection
- Suitable for explosion protected applications
- Suitable for use in very high ambient noise levels
- User can select a distinctive tone to suit the operating environment
- Internal or exposed external use
- Material: UV stabilised GRP
- Colour: Red



Model	Output	Tones	Voltage	Current	Protection
DB3	118dB	27	DC12V DC24V DV48V AC230V	0.76A 0.38A 0.19A 0.065A	Ip67

NON-STOCK / EX-INDENT

HEAVY DUTY INDUSTRIAL

A140

- 140dB
- 32 Tones
- IP55
- Colour: Grey



MA112/MA121

- 112dB - 121dB
- 32 - 45 Tones
- IP67
- Colour: Grey
- Marine Area



BExS110D / BExS120D

- 110dB-117dB
- 32 Tones
- IP67
- Colour: Grey
- Marine Area



BExS110E / BExS120E

- 110dB - 117dB
- 32 Tones
- IP66
- Colour: Grey
- Marine Area





SM30 (Ø80 MOTOR SIREN 110dB)

S - Normally Stock
 L - Limited Stock
 O - Ex Order

SM40 (Ø100 MOTOR SIREN 116dB)

- Ø80 / Ø100mm compact structure with 110dB / 116dB sound output
- Motor RPM SM30 10,000RPM / SM40 7,000RPM
- Housing standard color SM30 Red / SM40 GREY
- Materials SM30 Steel / SM40 ABS
- Insulation resistance : 100MΩ(at 500 VDC)
- Power consumption : 40W
- Ambient operation temperature : -25°C to +50°C
- Protection rating : IP44

Model	Output	Tones	Voltage	Current	Protection
SM30	110dB	MOTOR SIREN	DC12V	3.222A	IP44
			DC24V	1.779A	
			AC110V	1.333A	
			AC220V	1.000A	
Model	Output	Tones	Voltage	Current	Protection
SM40	116dB	MOTOR SIREN	DC12V	6.778A	IP44
			DC24V	3.666A	
			AC110V	1.000A	
			AC220V	0.722A	



SM30



SM40



SM200 (120DB HEAVY DUTY MOTOR SIREN)

S - Normally Stock
 L - Limited Stock
 O - Ex Order

SM400 (123DB HEAVY DUTY MOTOR SIREN)

- Excellent durability and high volume are suitable for noisy environment
- Motor RPM SM200 7,200RPM / SM400 7,600RPM
- Housing standard color : Red
- Materials SM200 Steel/Al / SM400 Steel/ABS
- Insulation resistance : 100MΩ(at 500 VDC)
- Ambient operation temperature : -25°C to +50°C
- Protection rating : IP44
- Certificates : CE Compliant

Model	Output	Tones	Voltage	Current	Protection
SM200	120dB	MOTOR SIREN	DC24V	7.820A	IP44
			AC110V	2.105A	
			AC220V	1.005A	
Model	Output	Tones	Voltage	Current	Protection
SM400	123dB	MOTOR SIREN	DC24V	12.000A	IP44
			AC110V	6.300A	
			AC220V	3.800A	



SM200



SM400



SANA200 (200-300Hz AIRHORN)

S - Normally Stock
 L - Limited Stock
 O - Ex Order

SANA4200 (400-600Hz AIRHORN)

S - Normally Stock
 L - Limited Stock
 O - Ex Order

SANA700 (700-800Hz AIRHORN)

S - Normally Stock
 L - Limited Stock
 O - Ex Order

- High volume horn uses compressed air to power the high pitched sound made with the diaphragm
- Uses a special material which consumes a small quantity of compressed air and has long durability
- Suitable for applications like a large and noisy engine rooms, a phone alarm in a pump room, or as an emergency alarm
- Sound volume : Max. 130dB at 1m
- Housing standard color : Red, Black, 7.5BG-MUNSELL No.7.5BG 7/2
- Materials : Horn-PC, Solenoid valve box-ABS
- Air pressure : 5-7kg/cm²
- Ambient operation temperature : -20°C to +60°C
- Certificates : KIMM Compliant

Model	Output	Tones	Voltage	Current	Protection
SANA200 SANA400 SANA700	130dB	AIR HORN	DC24V AC110V AC220V	0.488A 0.111A 0.055A	IP56



SANA400



SANA700



SANA200



Flashni 12V / 24V



S - Normally Stock
L - Limited Stock
O - Ex Order



COMBO UNITS



The Flashni is an audible and visual device which requires one single installation point. This greatly reduces installation and costs and is much less obtrusive than two separate devices. Versions are available with the sounder and beacon linked, or with separate terminals for independent operation.

- Low current – LED technology
- Single installation point
- Two stage alarm
- Reduced current consumption vs. Xenon alternative
- Beacon and high output sounder in one package
- Alert and Alarm function
- Light Output: > 0.5Cd
- Flash Rate: 1Hz
- Volume Control: 10dB
- Monitoring: Reverse polarity
- Temperature: - 10°C + 55°C
- Construction: ABS, PC lens
- Weight: 0.3Kg
- Colours: Red or white
- Flash Colour: Red



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
Flashni 12V	103dB	32	DC9-15V	0.11A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue • Green • Clear 	IP54
Flashni 24V	101dB		DC18-28V	0.068A			IP65

ROLP SOLISTA



S - Normally Stock
L - Limited Stock
O - Ex Order



The RoLP Solista range of LED Sounder / Beacon combo units use a low current LED, making these devices extremely efficient. Ideal for notification purposes where sounder circuit capacity is limited. The RoLP Maxi Solista is an enhanced version RoLP Solista providing a higher sound output on six key alarm tones. This is an ideal Audible and Visual alarm for use where higher noise levels require the use of a more powerful sounder.

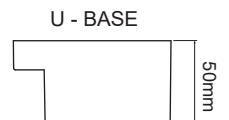
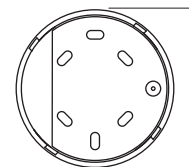
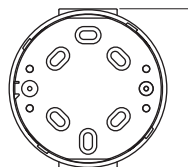
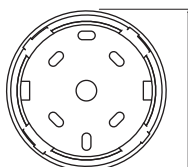
- Low current – LED technology
- Single installation point
- Two stage alarm
- Reduced current consumption vs. Xenon alternative
- Beacon and high output sounder in one package
- Alert and Alarm function
- Light Output: > 0.5Cd
- Flash Rate: 1Hz
- Volume Control: 10dB
- Monitoring: Reverse polarity
- Temperature: - 10°C + 55°C
- Construction: ABS, PC lens
- Weight: 0.3Kg
- Colours: Red or white
- Flash Colour: Red



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
RoLP Solista	101dB	32	DC9-28V	0.019A	LED	• Red	IP66
RoLP Maxi Solista	106dB		AC110-230V	0.043A			

BASES

- Locking Facility on all versions
- Protection up to IP65
- FR ABS material



ASTROBE - SOUNDER STROBE COMBO

S - Normally Stock
L - Limited Stock
O - Ex Order



COMBO UNITS



This weatherproof Sounder/Strobe (waterproof with optional conduit back box) is design optimized for use in fire alarm systems, but can be used in most applications requiring high sound output, "attention grabbing" double flash and economic current draw. A choice of 16 fully synchronized primary sounds can be selected together with 4 volume settings and 4 flash rates through dip-switch 1-8. An alternate continuous tone is available for selection on PCB terminals or by third wire remote control. Red is standard, however other colours can be done on special order.

- High sound output, 105dB @ 1metre
- Low current consumption
- 16 user selectable tones
- 4 user selectable flash rate
- Volume control
- Custom and Override tones
- Shallow or Deep base options
- IP65 weather proof version



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
ASTROBE	105dB	16	DC18-30V	0.017A	LED	o Clear	IP65

COMBO 1

S - Normally Stock
L - Limited Stock
O - Ex Order



A highly effective combination of a xenon strobe & a multi-tone electronic siren.

- Labour & Space saving.
- Space for termination of industrial cable.
- 1.5mm Stainless steel bracket.
- Voltages: 12 or 24VDC, 110 or 220VAC.
- Eagle siren: 102 dB@1m, 24 Sounds Switch Selectable.
- Volume control.
- 100 000 Candle Power, 120 Flashes Per Min.
- Colours : Red, Green, Yellow, Blue or Clear.
- When correctly installed, "COMBO 1" is Ip65.
- If mounted outdoors, it is recommended that the unit be protected from the sun.
- Also available as a strobe/strobe combo



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
COMBO 1 Eagle Sounder	102dB	32	DC9-28V AC110-230V	0.016A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue • Green 	IP65
AX35			DC12V DC24V AC110V AC220V	0.15A 0.06A 0.028A 0.014A			

COMBO 2

S - Normally Stock
L - Limited Stock
O - Ex Order



The Audio-Visual Unit is a dual or triple base assembly which can be fitted with any combination of Fulleons bayonet base compatible products. Sounder, voice sounders Xenon or LED beacons can be combined to suit many applications from fire alarms to machine warnings.

- Sound output: 102dB(A) @ 1 metre
- Volume control: 0 to -20dB
- Supply: 9V-28Vdc
- Light output: >0.5Cd
- Flash rate: 60 per minute
- Environment: IP54 shallow base, IP65 deep base
- -10°C to +55°C
- Continuously rated
- Construction: ABS plastic body, polycarbonate lens
- Gland entry 20mm
- High efficiency
- Lock able base



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
COMBO 2 Eagle Sounder	102dB	32	DC9-28V AC110-230V	0.016A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue • Green 	IP65
Solex Beacon			DC10-60V AC110-230V	0.01A-0.08A			

ASSERTA MINI (SOUNDER BEACON)



S - Normally Stock
L - Limited Stock
O - Ex Order



COMBO UNITS



The most compact sounder in the Asserta Range, the Asserta Mini Sounder/Beacon (S/B) is a rugged unit with a high IP rating. Suitable for use in harsh environments, its low current consumption and optional integrated beacon adapt it well to either fire systems or use as a general signalling device in industrial applications. Where the Mini is used in secure applications there is an option to add a tamper switch so that any interference with the unit can signal an alarm to a security panel.

- 32 tones (user selectable)
- Wide operating voltages
- Integrated beacon
- 4 lens colours
- Ideal for all general signalling applications
- Adaptable to all types of installations
- Easy installation
- Material: ABS PC case / Polycarb Lens
- Colour Option: Red or Grey



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
ASSERTA MINI	105dB	32	DC9-60V	see below	Xenon	<ul style="list-style-type: none"> • Red • Amber ○ Clear • Blue 	IP66
Current Sounder & Beacon: 0.198A@DC24V 0.068A - 0.08A@AC230V							

ASSERTA MIDI (SOUNDER BEACON)



S - Normally Stock
L - Limited Stock
O - Ex Order



The Fulleon Asserta industrial warning sounder beacon is designed to cope with harsh environments requiring protection to IP66. Design features are incorporated to ensure safe and easy installation, while providing flexibility with fewer product variants.

- 24Vdc Operation, 110dB(A) or 120dB(A) output versions available
- Fully integrated asymmetric beacon uses light for efficiently
- Simple first & second fix installation
- 42 Alarm tones
- 3 Stage alarm sounder time out – user adjustable
- Optional swivel mount bracket
- Voice message option available
- Material: ABS PC case / Polycarb Lens
- Colour Option: Red or Grey



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
ASSERTA MIDI	112dB	32	DC9-60V AC115V	see below	Xenon	<ul style="list-style-type: none"> • Red • Amber ○ Clear • Blue 	IP66
Current Sounder: 0.023A@DC24V Current Beacon: 0.02A@DC24V 0.012A@AC230V 0.03A@AC230V							

ASSERTA MAXI (SOUNDER BEACON)



S - Normally Stock
L - Limited Stock
O - Ex Order



The 120dB (A) Asserta Industrial warning sounder beacon is designed to cope with harsh environments requiring protection to IP66. Design features are incorporated to ensure safe and easy installation, while providing flexibility with fewer product variants.

- Powerful 120dB(A) output
- 3 stage alarm and time out function
- 42 alarm tones
- Asymmetric beacon
- Maximum sound output for high noise environments
- 3 levels of alarm for differing warning states
- Large range of tone options
- Efficient use of light reduces current while generating the same intensity as a 5j beacon



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
ASSERTA MAXI	110dB 120dB	42	DC18-30V AC230V	see below	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue 	IP66
Current Sounder: 0.105A@DC24V Current Beacon: 0.012A@DC24V - 0.45A@DC24V 0.62A@DC24V 0.04A@AC230V (dependant on setting) 0.065A@AC230V 0.015A@AC230V							

QAD...



S - Normally Stock
L - Limited Stock
O - Ex Order



COMBO UNITS



- Combination of warning light and horn allow for both visual and audible signal transmission at once
- Flashing rate : 60-80 flashes/min(Built-in Steady-Flash selection switch)
- Appropriate sound tones can be chosen depending on the various working environment among various available sound tones.
- Sound tone selector and volume controller in front of the device allows for convenient use
- Built-in 30 sound tones, Support Binary and Bit input modes
- Bit input mode consists of 5 sound types with 6 groups. Choose one of the groups to play sounds
- Materials: Lens - PC, Housing - ABS
- Ambient operating temperature : -30°C to +50°C
- Certificates: CE, UL Compliant



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
QAD80H Ø80	100dB	30 Built in Sounds	DC12-24V	0.640A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65
QAD80BZ Ø80	105dB	High Buzzer	DC12V DC24V	0.500A 0.270A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65
Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
QAD100H Ø100	100dB 95dB	30 Built in Sounds 30 Mp3 Sounds	DC12V-24V AC110V-220V	1.055A 0.360A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65
QAD100BZ Ø100	105dB	High Buzzer	DC12V DC24V AC110V-220V	0.550A 0.300A 0.100A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65
Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
QAD125H Ø125	115dB	30 Built in Sounds 30 Mp3 Sounds	DC12-24V AC110V-220V	1.055A 0.360A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65
QAD125BZ Ø125	105dB	High Buzzer	DC12V DC24V AC110V-220V	0.550A 0.300A 0.100A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP65

S60AD.



S - Normally Stock
L - Limited Stock
O - Ex Order



- LED, Xenon or Bulb options
- Ø60mm warning light with high volume built-in buzzer in a vertical configuration
- Cone-shaped horn helps diffuse sound to generate clear and distinctive sound signals
- Suitable for applications that require downward audible signals in elevated locations
- Buzzer sound volume (Max. 100dB at 1m)
- Employs a special filament to prevent damage caused by possible voltage variations
- Selectable between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Materials : Lens-AS, Body-ABS
- Ambient operating temperature : -30°C to +50°C
- Certificates : CE Compliant



Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
S60ADL Ø60	100dB	High Buzzer	DC12V DC24V AC110V AC220V	1.008A 0.556A 0.127A 0.064A	LED Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP54
Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
S60ADS Ø60	100dB	High Buzzer	DC12V DC24V AC110V AC220V	0.550A 0.266A 0.088A 0.044A	Xenon Steady/Flashing	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP54
Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
S60ADB Ø60	100dB	High Buzzer	DC12V DC24V AC110V AC220V	1.008A 0.556A 0.127A 0.064A	Bulb 12V10W 24V10W 110V10W 220V10W	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP54

SKTLB.

S - Normally Stock
L - Limited Stock
O - Ex Order



COMBO UNITS / VEHICLE



- High brightness LED with special light filter structure provides clear signal light transmission even in outdoor environments with intense sunlight
- Excellent vibration and impact resistance with use of polycarbonate lens
- Lens with special coating material maintains transparency even when exposed to harsh environments where scratches, dust and direct sunlight is possible
- Water resistant, dust-proof, and weather resistant structure provides excellent durability under harsh environments such as rainstorms, frost, and intense heat
- Different lights from side to side improve efficiency of emergency signal transmission effect
- 4 strong magnets enable secure attachment to the desired place (SKTLBM)
- Convenient emergency signal sound control with built-in ON/OFF switch
- Sound volume : Max. 105dB at 1m
- Easy control of warning sound with built-in ON/OFF switch
- Materials : Lens, Housing-PC
- Ambient operating temperature : -30°C to +50°C
- Protection rating : Ip66



SKTLBM



SKTLB

Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
SKTLB Direct Mount	105dB	Siren Buzzer	DC12V DC24V	1.250A 0.705A	LED	<ul style="list-style-type: none"> • Red • Amber • Green • Blue • White 	IP66
SKTLBM Magnetic Base	105dB	Siren Buzzer	DC12V DC24V	1.250A 0.705A	LED	<ul style="list-style-type: none"> • Red • Blue 	IP66

QWCD35 (LED STROBE SIGNAL LIGHT AND ELECTRIC HORN COMBO)

S - Normally Stock
L - Limited Stock
O - Ex Order

QWCD50 (LED STROBE SIGNAL LIGHT AND ELECTRIC HORN COMBO)

S - Normally Stock
L - Limited Stock
O - Ex Order

COMBO UNITS



- By using the horn cover as a light globe, the size of the product has been reduced
- Easy device customization with built in sound selection function, volume adjustment function and an SDcard slot for user inputted tones
- 31 available tones that can be selected for a variety of environments
- The user can select their own tones by inputting the MP3 file directly into the SD card
- 31 pre-recorded tones available via binary input
- Suitable for use in environments that require a tight seal and superior dust protection
- Can be used in extreme environmental conditions such as the arctic where temperatures can reach -50°C
- Flashing rate : 60-80 flashes/min (steady/flashing mode selection available in built in switch)
- Materials : Horn-PC, Body-ABS
- Ambient operating temperature : -50°C to +60°C
- Protection Rating : IP66
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive

QWCD series	
QWCD35	Built in standard sound
QWCD35SD	Mp3 (SD card)
QWCD50	Built -in standard sound Large output sound
QWCD50SD	SDcard(MP3) Large output sound



QWCD35 series



QWCD50 series

Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
QWCD35 QWCD35SD	115dB 113dB	31 Built-in 30 MP3	DC12V-24V AC110V-220V	1.025A 0.360A	LED Strobe Type	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP66
Model	Output	Tones	Voltage	Current	Light Source	Lens Colours	Protection
QWCD50 QWCD50SD	123dB 118dB	31 Built-in 30 MP3	DC12V DC24V AC110V-220V	2.025A 1.150A 0.600A	LED Strobe Type	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP66

PLROB....



S - Normally Stock
L - Limited Stock
O - Ex Order



ENCAPSULATED WARNING LIGHTS



This range of encapsulated warning lights are constructed in a clear impact resistant poly-carbonate lens and is available in various brightnesses and colours. The printed circuit board holding the LED's and associated circuitry are encapsulated into the poly-carbonate lens with an epoxy resin. This makes the product moisture proof and highly reliable. These warning lights are available in the steady on state or with built in flashers. The termination for these units is available on the rear of the lens via two M3 brass screws, thus termination with ring lugs is ideal. The units can be supplied with a two entry back box or can be ordered separately.

Model number	Mode	Colour	Voltage
PLROBFD-U	Flashing	Std Diffused Red	DC24V;48V;110V or 500V DC220V special order only
PLROBFD-M		Super Diffused Red	
PLROBFC-M		Super Clear Red	
PLROBFEC-M		Extra Super Clear Red	
PLROBFC-G		Green	
PLROBFC-K		Super Clear Yellow	
PLROBFD-N		True Orange	
PLROB-D-U	Steady-On	Std Diffused Red	DC12V;24V;148V;110V or 220V
PLROB-D-M		Super Diffused Red	
PLROB-C-M		Super Clear Red	
PLROBE-C-M		Extra Super Clear Red	
PLROB-C-G		Green	
PLROB-C-T		True Green	
PLROB-C-K		Super Clear Yellow	
PLROB-C-B		Std Clear Blue	
PLROB-D-N		True Orange	



Standard LED Version



Surface Mount LED Version

LE110....



S - Normally Stock
L - Limited Stock
O - Ex Order

- Cutout: Ø106mm
- Used mainly on mines for robots, refuge bays...
- Polycarbonate lens is vandal proof & the 76 LED's give a large bright light.
- Approximate lifespan of 15 Years
- High bright version's available on special order with the ability to position the LED's at at
- 45° angle for applications where the units are mounted high above normal eye level.
- Bare board or Rear back Epoxy potted version available.
- Colours: Red, green, yellow, orange, blue or bi-colour (Red & Green).
- Voltages: 12, 24, 32, 110, 220VAC/DC

Model number	Version	Colour	Voltage
LE110D-U	Bare Board	Std Diffused Red	AC/DC 12V;24V;32V; 110V or 220V
LE110D-M		Super Diffused Red	
LE110D-G		Water Clear Green	
LE110D-Y		STD Diffused Yellow	
LE110D-K		Super Yellow	
LE110D-N		True Orange	
LE110D-D		Bi-Colour(Red & Green)	
LE110E-U	Epoxy Board	Std Diffused Red	AC/DC 12V;24V;32V; 110V or 220V
LE110E-M		Super Diffused Red	
LE110E-G		Water Clear Green	
LE110E-Y		STD Diffused Yellow	
LE110E-K		Super Yellow	
LE110E-N		True Orange	
LE110E-D		Bi-Colour (Red& Green)	

LED Board
Bare Board

Mounting Gasket



LED Board
Epoxy Board

Mounting Gasket



L103..

L104..



S - Normally Stock
L - Limited Stock
O - Ex Order

S - Normally Stock
L - Limited Stock
O - Ex Order



ENCAPSULATED WARNING LIGHTS



- 3 or 4 Head LED Cluster Light
- High intensity, high power LED's
- Simultaneously flash multiple patterns
- Available for synchronization connection
- Water resistant and dust proof
- Operating Temperature: -10° to 80°C
- Slave units use external flasher unit



- L106 BZL 6 Head Black bezel
- L108 BZL 8 Head Black bezel



L103..



L104..

3 Head part.no master	3 Head part.no slave	Flash Pattern	LED colour	Lens colour	LED'S	Peak Current @ 12V	Voltage	Dimensions
L103AA	L103AA-S	Single - 75FPM	Amber	Amber	3x GEN 3 1Watt	0.35 Amps	12-24 VDC	101mm(L) 41mm(W) 29mm(H)
L103AC	L103AC-S	Single + Double - 72FPM	Amber	Clear				
L103BB	L103BB-S	Quad - 72FPM	Blue	Blue				
L103BC	L103BC-S	Patterns cycle mode	Blue	Clear				
L103CC	L103CC-S	Fade in/out - 30FPM	Clear	Clear				
L103CM	L103CM-S	Steady On	Clear	Magenta				
L103GG	L103GG-S		Green	Green				
L103GC	L103GC-S		Green	Clear				
L103RR	L103RR-S		Red	Red				
L103RC	L103RC-S		Red	Clear				
4 Head part.no master	4 Head part.no slave	Flash Pattern	LED colour	Lens colour	LED'S	Peak Current @ 12V	Voltage	Dimensions
L104AA	L104AA-S	Single - 75FPM	Amber	Amber	4x GEN 3 1Watt	0.7 Amps	12-24 VDC	121mm(L) 41mm(W) 29mm(H)
L104AC	L104AC-S	Left 2/Right 2 Alternate	Amber	Clear				
L104BB	L104BB-S	Single - 120FPM	Blue	Blue				
L104BC	L104BC-S	Single + Double - 72FPM	Blue	Clear				
L104CC	L104CC-S	Doublet - 90FPM	Clear	Clear				
L104CM	L104CM-S	Quad - 72FPM	Clear	Magenta				
L104GG	L104GG-S	Patterns cycle mode	Green	Green				
L104GC	L104GC-S	Fade in /out - 30FPM	Green	Clear				
L104RR	L104RR-S	Steady On	Red	Red				
L104RC	L104RC-S		Red	Clear				

PLROB LED ROBOT BOX

LE110 LED ROBOT BOX



S - Normally Stock
L - Limited Stock
O - Ex Order

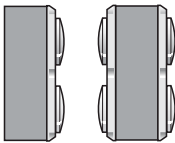

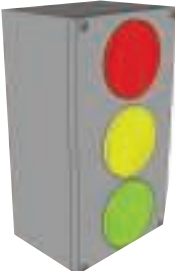
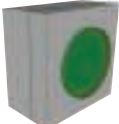

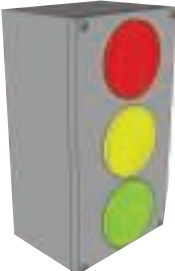






ROBOT INDICATORS



The enclosure dimensions may vary depending on what is available.
Please contact us with your robot indication requirements.
We are very flexible & have manufactured many different types of LED robot boxes.

- For Underground & Indoor use
- 1, 2 or 3 way options Single or Double Sided
- Using PLROB or LE110 Warning Lights
- With or without Midi Peaks
- Colours: Red, Green or Bi-colour.
- Voltages: 24V, 32V, 110V, 220V AC/DC

Robot Box Options		
Dual or Single Aspect	Dual or Single Aspect	Dual or Single Aspect
		
		
<ul style="list-style-type: none"> • ROB-1L(1 Lense) • ROB-1L-DA (1 Lense Dual Aspect) 	<ul style="list-style-type: none"> • ROB-2L(2 Lenses) • ROB-2L-DA (2 Lenses Dual Aspect) 	<ul style="list-style-type: none"> • ROB-3L(3 Lenses) • ROB-3L-DA (3 Lenses Dual Aspect)

Assembly & Accessories		
 <ul style="list-style-type: none"> • PLROB Encapsulated warning lights - see pg 3.00 	 <ul style="list-style-type: none"> • Custom Enclosures to meet requirements (see below) 	 <ul style="list-style-type: none"> • Optional Midi Peaks
 <ul style="list-style-type: none"> • LE110 Encapsulated warning lights - see pg 3.00 		



POLYESTER GRP ENCLOSURES



S - Normally Stock
L - Limited Stock
O - Ex Order

- High corrosion resistance.
- Large accessories list.
- Even with door window enclosure maintains IP rating.
- External mounting bracket with a good load capacity.
- Extremely high tensile strength.
- IP66 with individual 1/4 turn locks; IP54 single handle multi-cam lock (Allbrox 8).
- The "GREEN ALTERNATIVE" Environmentally friendlier due to low manufacturing impact.
- Does not contain heavy metals, asbestos, halogens or other toxic materials.
- In these enclosures the glass fibre used for reinforcing has a diameter greater than the 14 micron and is not hazardous to health.







APOLLO PLASTIC MODULAR ROBOTS

L S - Normally Stock
L - Limited Stock
O - Ex Order

ROBOT INDICATORS

- Modular Assembly.
- Fibreglass reinforced Nylon (P.A.).
- Led Lamp 12 or 24V, 110 or 220V.
- 110-220V Filament.
- LED daylight visible + 50 000 hours life expectancy.
- All fixings are exterior to the lamp housing chambers.
- Wiring channel with knockouts.
- Cable gland supplied to maintain (IP65).
- 4 way, 3 way, 2 way or single unit options available.

Midi Mod Options

<ul style="list-style-type: none"> ● Red ● Yellow ● Green ○ Clear  <p>• 1 Way</p>	<ul style="list-style-type: none"> ● Red ● Yellow ● Green ○ Clear  <p>• 2 Way</p>	<ul style="list-style-type: none"> ● Red ● Yellow ● Green ○ Clear  <p>• 3 Way</p>	<ul style="list-style-type: none"> ● Red ● Yellow ● Green ○ Clear  <p>• 4 Way</p>
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Assembly & Accessories

 <p>• All fixings are exterior to the lamp housing chambers</p>	 <p>• Cable Gland supplied to maintain IP65</p>	 <p>• Wiring channel with knockouts</p>	 <p>• Modular Assembly</p>
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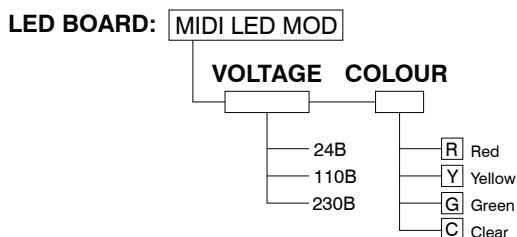


LENS FOR MIDI MOD

PART NO.:

- RED LENS : MIDI LENS-R ● Red
- YELLOW LENS : MIDI LENS-Y ● Yellow
- GREEN LENS : MIDI LENS-G ● Green
- CLEAR LENS : MIDI LENS-C ○ Clear

DAYLIGHT VISIBLE LED BOARD

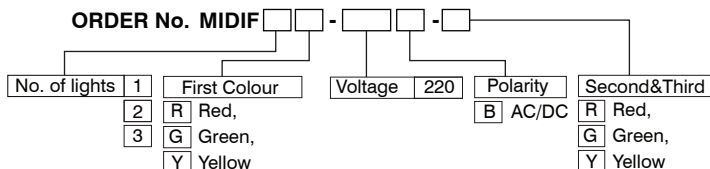


MIDI ROBOTS

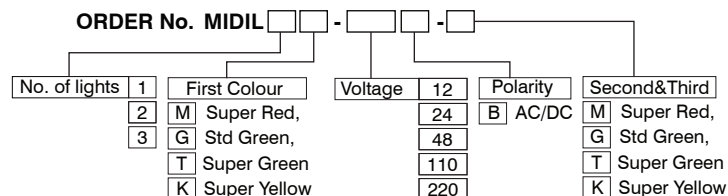
L S - Normally Stock
L - Limited Stock
O - Ex Order

This range of IP65 traffic lights in extruded, anodized and hot painted aluminium has been designed to control slow traffic. Ideal for residential hotels, blocks of flats, car parks, car washes, factories & mines etc. It can be oriented through an angle of about 200° with 3° clicks. The material used for the plastic parts is PA6 30% glass fibre. The standard unit has a 220v 70w long life filament lamp (8 000 Hours on average). It is also available on special order with extended long life led's (50k+ hours on average).

FILAMENT LAMP -220AC/DC(8 000 hours life expectancy)



LED LAMP -12, 24,48VDC & 110,220VAC(150 000 hours life expectancy)



1,2 or 3 way Light options
Vertical or Horizontal fixing



- Red
- Yellow
- Green

Using our pre-programmed Super Relay PLC these robots can be used for crossroad, intersection & single lane bi-directional applications where traffic control is extremely important.

QT50L (Ø50mm Modular Multi-Functional LED Tower Lights)



S - Normally Stock
L - Limited Stock
O - Ex Order



SIGNAL TOWER LIGHTS

QT70L (Ø70mm Modular Multi-Functional LED Tower Lights)



S - Normally Stock
L - Limited Stock
O - Ex Order

- QT series tower light is a multifunctional product that allows for significant customization to your specific needs using our special modular components such as the lens, buzzer, ethernet cord, USB cord and mounting brackets. Additional tools are not required for assembly
- All modular components can be arranged freely to the user desired position (upper/ lower) except for the dial tone lever.
- Buzzer modules position can be chosen freely. The buzzer module is designed to be compatible with the light modules by using a novel architecture developed by Qlight. Therefore, users can reposition the module to the location they desire.
- Can select from a variety of LED light functions, The LED indicator can provide varying signals/actions by using different independent light modules; flashing, strobe, rotating. For example, green would indicate normal operation, a red module would indicate risk which can be highlighted further by selecting a strobe flashing or rotating module.
- Select from 15 kinds of buzzer tones There are 4 audible modules available which includes one buzzer type module and 3 alarm modules. Each alarm module comes with 5 sound patterns that can be selected for your specific application environment. The Buzzer module is customizable with two options- the 2 tone buzzer and high volume buzzer.
- Product consist of LED modules, base module and pole module
- Can select from a variety of pole selections to fit your application needs
- Material : Lens-PC, Housing-ABS, Pole-Al
- Ambient operating temperature : -30°C to +50°C
- Protection rating : Ip65



LED MODULE (Multi-functional Module)

- 4 kinds of LED modules; Steady, steady/flashing, strobe, revolving flashing
- Good visibility with high brightness.
- Module position can be chosen based on signal importance.



- LED Steady Module**
- Output LED Steady signal
 - High brightness LED
 - Voltage : DC12V, DC24V, AC110V, AC220V



- LED Steady/Flashing Module**
- Output LED Steady/Flashing signal
 - High brightness LED
 - Voltage : DC12V, DC24V, AC110V, AC220V



- LED Strobe Module**
- LED flashing light
 - Excellent notice compare to flashing type
 - Voltage : DC12V, DC24V



- LED Revolving Flashing Module**
- LED light revolve and flash
 - Dynamic Signal
 - Voltage : DC12V, DC24V

BUZZER MODULE

- Buzzer module has Siren and Bip sound, Bip sound is adjustable.
- Buzzer module position can be chosen freely and has a good air tight seal.
- Sound adjustable by lever on module side
- Buzzer module position can be chosen freely



- Bip Sound Buzzer Module**
- Bip sound (Pi-Pi) volume : Max 90dB
 - Sound adjustable
 - Voltage : DC12V, DC24V, AC110V, AC220V



- Siren Sound Buzzer Module**
- Siren buzzer volume : Max 90dB
 - Sound fixed
 - Voltage : DC12V, DC24V, AC110V, AC220V

MOUNTING BRACKETS (Pole Mounting)

Standard

LB18 / LB24

LW18 / LW24

QZ18 / QZ24

SZ18 / SZ24

QL18 / QL24

SL18 / SL24

QLA18 / QLA24



Steel



Steel



PC



PC



Al



PC



Al



PC

MFL60 / MFL80 (Ø60mm / Ø80mm)

MFL100 / MFL125 (Ø100mm / Ø125mm)

 S - Normally Stock
 L - Limited Stock
 O - Ex Order
 S - Normally Stock
 L - Limited Stock
 O - Ex Order

Qlight MULTI FUNCTION LED SIGNAL LIGHTS



- Product has multi functions of LED Steady/ Flashing, strobe, and simulated revolving.
- Operating options with switches inside product or external connect.
- Shock and vibration-resistant, maintenance reduced with long-lasting energy-efficient LED light bulb.
- Built-in buzzer available (Volume: Max 80dB at 1m).
- Flashing type(LF) flashing rates: 60-80 flashes/min.
- Strobe type(LS) flashing rates: 70-80 flashes/min.
- Simulated revolving type(LR) flashing rates: 120-140 flashes/min .
- Materials: Lens-PC, housing-ABS, Mounting bracket-PC.
- Ambient operating temperature: -30°C to +50°C.



• LED Steady/Flashing



• LED Strobe



• LED Simulated Revolving



MFL60



MFL100



MFL80





MFL125

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
MFL60 - Ø60	Built in Buzzer available 80dB	DC12V-24V AC110V-220V	0.140A 0.045A	LED	• Red • Amber • Green • Blue	IP66
MFL80 - Ø80			0.190A 0.052A			
MFL100 - Ø100			0.255A 0.067A			
MFL125 - Ø125			0.255A 0.067A			

Q60L / Q80L (Ø60mm / Ø80mm)

Q100L / Q125L (Ø100mm / Ø125mm)

 S - Normally Stock
 L - Limited Stock
 O - Ex Order
 S - Normally Stock
 L - Limited Stock
 O - Ex Order

LED STEADY/FLASHING SIGNAL LIGHTS



- L series - Direct mount type with the three bolts/screws located on the bottom of the product.
- LP series - Pole mount type / various mounting options are available
- Shock and vibration-resistant, maintenance reduced with long-lasting energy efficient LED light bulbs.
- Materials : Lens-PC, Housing-ABS.
- Features high visibility with special diffusive lens and direct LED light distribution system.
- Built-in switch for selection between steady and flashing light mode.
- Flashing rate : 60-80 flashes/min.
- Ambient operating temperature : -30°C to +50°C.
- Protection rating : Ip65.
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive



Q60L



Q100L



Q60LP



Q125LP

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
Q60L - Ø60	Built in Buzzer available 80dB	DC12V-24V AC110V-220V	0.140A 0.045A	LED	• Red • Amber • Green • Blue	IP65
Q80L - Ø80			0.190A 0.052A			
Q100L - Ø100			0.255A 0.067A			
Q125L - Ø125			0.255A 0.067A			

MOUNTING BRACKETS (Pole Mounting)

- For Q60LP & Q80LP Models only use ..18 series of accessories.
- For Q100LP & Q125LP Models only use ..24 series of accessories.

Screw & Nut

QZ18 / QZ24

SZ18 / SZ24

QL18 / QL24

SL18 / SL24

QLA18 / QLA24



Steel



PC



Al



PC



Al



PC

Quick release



S80..



S - Normally Stock
L - Limited Stock
O - Ex Order



FILAMENT ROTATING LIGHTS



- Ø80mm bulb revolving warning light
- Adopts a special power transmission system that reduces noise and wear
- S80R/U Built-in buzzer available (Volume : Max. 90dB at 1m)
- S80RK / UK with circular mounting bracket
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- High durability bulb
- Protection rating : IP44
- Certificates : CE Compliant

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S80R S80U	Built in Buzzer available 80dB	DC12V DC24V AC110V AC220V	0.484A 0.310A 0.080A 0.040A	Bulb 12V5W 24V5W 12V5W 12V5W	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44
Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S80RK S80UK	Circular mounting bracket for convenient installation	DC12V DC24V AC110V AC220V	0.484A 0.310A 0.080A 0.040A	Bulb 12V5W 24V5W 12V5W 12V5W	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44



S80U



S80R



S80UK



S80RK

Customization

- Pole mount type

Standard	QZ18	SZ18	SL18	QLA18
Steel	PC	Al	Al	PC



S150U....(Ø150mm Bulb Revolving Warning Lights)



S - Normally Stock
L - Limited Stock
O - Ex Order



FILAMENT ROTATING LIGHTS



- Ø150mm bulb revolving warning light
- S150R Models : Feature highly durable housing made of corrosion-proof stainless steel (STS)
- S150U Models: Feature special power transmission system which allows low noise and less wear
- S150U Models: Feature Built-in buzzer available (Volume : Max. 90dB at 1m)
- S150LR Models :Radiating LED Light of high brightness by using a special revolving reflector
Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector - LR series
- Suitable for Long distance signal transmission by adopting high capacity bulb and large sized reflector
- Revolving speed : 120-140RPM
- Materials : Lens - PC, Housing - ABS or STS, Reflector - PC or Heat Resistant ABS, Mount Bracket - STS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : Ip44

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S150U/LR S150U/LR-FT S150R/LR S150R/LR-FT	U-ABS housing R-STs housing LR-LED Reflector FT-Feet	DC12V DC24V AC110V AC220V	0.422A 0.266A 0.082A 0.041A	LED	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44
Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S150U S150U-FT S150R S150R-FT	U-ABS housing R-STs housing FT-Feet	DC12V DC24V AC110V AC220V	1.155A 0.766A 0.204A 0.102A	BULB 12V15W 24V15W	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44



S150ULR



S150U-FT



S150RLR



S150R-FT

S180U

S - Normally Stock
L - Limited Stock
O - Ex Order



FILAMENT ROTATING LIGHTS



- Excellent long distance signal transmission effect with 35W capacity bulb and dual reflectors
- A spare bulb is provided inside the product for quick replacement if provided
- Built-in buzzer available (Volume : Max. 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens-AS, Housing-ABS, Reflector-PC
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP44



S180 type has strong flashing light characteristics with dual reflector.

S180U has a spare bulb inside the product for easy replacement if required.

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S180U	Spare Bulb Located Inside	DC12V DC24V AC110V AC220V	3.077A 1.544A 0.388A 0.194A	Bulb 12V35W 24V35W	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44

QMCL... (Multi-Colour LED Steady/Flashing Signal Light)

S - Normally Stock
L - Limited Stock
O - Ex Order



MULTICOLORED LED SIGNAL LIGHTS



QMCL series signal lights have a milky translucent hue when turned on. These signal lights provide a comfortable and stable viewing condition for workers in close proximity.

- Ø60, Ø80, Ø100 or Ø125
- Helps reduce the costs of installation by reducing the space needed to emit seven color signals in a single warning light.
- Milky translucent color when off, the soft LED illuminates designated colors when on.
- Built-in buzzer available (Volume : Max. 80dB at 1m).
- Materials : Lens-AS, Body-ABS.
- Ambient operating temperature : -30°C to +50°C.
- Protection rating : IP65.
- Colours: Red, Amber, Cyan, Green, Blue, Purple, White.



QMCL60



QMCL125



QMCL80



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
QMCL60-Ø60	Emits a cozy and comfortable hue	DC12V	0.120A	LED Steady	7 Colour options	IP65
QMCL80-Ø80		DC24V	0.060A			
QMCL100-Ø100		DC12V	0.240A			
QMCL125-Ø125		DC24V	0.120A			

SMCL... (Multi-Colour LED Steady/Flashing Signal Light)

S - Normally Stock
L - Limited Stock
O - Ex Order



- Ø80, Ø100 or Ø125
- Ideal for locations where space requirements need one warning light to convey multiple color signals.
- LED light distribution system with multi-tiered reflector provides uniformed light signals throughout the entire lens.
- Built-in buzzer available (Volume : Max. 90dB at 1m).
- Can select between steady/ flashing mode.
- Flashing rate : 60-80 flashes/min.
- Materials : Lens-AS, Body-ABS, Reflector-Heat resistant ABS.
- Ambient operating temperature : -30°C to +50°C.
- Protection rating : Ip44
- Certificates: CE Compliant
- Complaint with RoHS directive



SMCL100

SMCL80

SMCL125

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection	
SMCL80-Ø80	Produces Two or Three multicolored LED signals	DC12V	0.234A	LED Steady/ Flashing	<ul style="list-style-type: none"> • Red • Amber • Green 	IP44	
SMCL100-Ø100		DC24V	0.132A				
		AC110V	0.066A				
		AC220V	0.033A				
SMCL125-Ø125		DC12V	0.387A				
		DC24V	0.212A				
		AC110V	0.093A				
			AC220V				0.046A
			DC12V				0.410A
		DC24V	0.227A				
		AC110V	0.104A				
		AC220V	0.052A				



MOUNTING BRACKETS (Wall Mounting)

- Wall mounting bracket options: Bracket structure allows for threading through the bracket hole or into the wall mount.

QMCL60/QMCL80

SMCL80



Wall Mount Bracket
TWS80



Wall Mount Bracket
TWA80

QMCL100/QMCL125

SMC100/SMCL125



Wall Mount Bracket
SWP125



Wall Mount Bracket
SWM125

S150US (Ø150mm Xenon Lamp Strobe Signal Light)



S - Normally Stock
L - Limited Stock
O - Ex Order



STROBE LIGHTS

S150US-FT (Ø150mm Xenon Lamp Strobe Signal Light)

- Ø150mm Xenon Lamp Strobe Light
- Ø150mm LED Steady/Flashing Signal Light
- Improved visibility by employing special scattering Lens
- Built-in switch for selection between steady and flashing mode
- Built-in buzzer available (Volume : Max. 90dB at 1m)
- Ambient operating temperature : -30°C to +50°C
- Connector type lamp socket allows convenient lamp replacement
- Flashing rate : 60-80 flashes/min
- Materials : Lens - PC, Housing - ABS, Reflector - Heat resistant ABS
- Protection rating : Ip44



S150US-FT/S150UL-FT



S150US/S150UL



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S150UL	Improving Visibility by Employing Special Scattering Lens	DC12V	0.300A	LED Steady/Flashing Signal Light	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP44
S150UL-FT		DC24V	0.200A			
S150US		AC110V	0.060A	Xenon Lamp Strobe Signal Lights		
S150US-FT		AC220V	0.030A			

S125MLR (Ø125mm LED Revolving Warning Light)



S - Normally Stock
L - Limited Stock
O - Ex Order

- Ø125mm standard LED revolving warning light
- Three powerful magnets provide strong adhesion to the vehicle
- Power supply through cigarette lighter plug
- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Shock and vibration-resistant from the vehicle with long-lasting LED light bulbs
- Built-in buzzer available (Volume : Max. 90dB at 1m)
- Revolving speed : 120-140RPM
- Materials : Lens - AS, Housing - ABS, Reflector - Heat resistant ABS
- Ambient operating temperature : -20°C to +50°C
- Protection rating : IP54



S125MLR



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S125MLR	LED Revolving Warning Lights for Vehicle	DC12V DC24V	0.422A 0.266A	LED Revolving Reflector	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP54



SKTL (Cubic LED Warning Light for vehicle)



S - Normally Stock
L - Limited Stock
O - Ex Order

- High brightness LED with special light filter structure provides clear signal light transmission even in outdoor environments with intense sunlight
- Excellent vibration and impact resistance with use of polycarbonate lens
- Lens with special coating material maintains transparency even when exposed to harsh environments where scratches, dust and direct sunlight is possible
- Water resistant, dustproof, and weather resistant structure provides excellent durability under harsh environments such as rainstorms, frost, and intense heat
- Flashing rate : 60-80 flashes/min
- Materials : Lens, Housing-PC
- Ambient operating temperature : -30°C to +50°C
- Protection rating : Ip66



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
SKTL	Cube-shaped LED Warning Light Direct Mount	DC12V DC24V	1.000A 0.555A	LED	<ul style="list-style-type: none"> • Red • Amber • Green • Blue • White 	IP66

Also available SKTLB with built in buzzer see page 3.00

EDISON EGG D200



S - Normally Stock
L - Limited Stock
O - Ex Order

STROBE LIGHTS



- 110V AC - 1W
- 220V AC - 1W
- Candlepower: 320 000
- Flashes per min: 60
- Weatherproof xenon strobe.
- Acrylic lens with ABS E27 base.
- Colours: Red, Green, Yellow, Blue or Clear.



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
D200	Looks like a egg	AC110V AC220V	0.422A 0.266A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Green • Blue ○ Clear 	IP54

AX35B



S - Normally Stock
L - Limited Stock
O - Ex Order



- 12V DC - 150mA
- 24V DC - 60mA
- 110V AC - 28mA
- 220V AC - 14mA
- Candlepower: 100 000
- Flashes per min: 120
- Intensive weatherproof xenon strobe.
- Acrylic lens with ABS base. Base Mounted.
- Colours: Red, Green, Yellow, Blue & Clear.



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
AX35B		DC12V DC24V AC110V AC220V	0.15A 0.06A 0.028A 0.014A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Green • Blue ○ Clear 	IP44

AXD-24BM-24 Strobe



S - Normally Stock
L - Limited Stock
O - Ex Order



AXD-24LM-24 LED

- Available in Single or Double Flash
- Hardwire: Permanent mount without plug
- Magnetic Base: with plug to suit standard automotive power outlet
- PC Board is epoxy potted to increase lifespan
- Polycarbonate UV stabilised lens
- Operating temperature: -20 to 85° C
- Interchangeable lenses
- Flash rate: 65-75 flashes per minute
- Pole Mount adapter available
- Magnetic Base lead length: 4m
- Hardwire: H95mm x D129mm
- Magnetic Base: H110mm x D129mm
- Current draw @ 12V: 0.25 Amps
- Available in Amber, Red, Green, Clear and Blue



STROBE

- 12VDC
- Flashes per minute: 100
- Lens & base are polycarbonate
- Magnetic base
- Cigarette lighter plug
- Colours: Red, yellow, blue & clear



LED

Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S125MLR	LED Revolving Warning Lights for Vehicle	DC12V DC24V	0.422A 0.266A	LED Revolving Reflector	<ul style="list-style-type: none"> • Red • Amber • Green • Blue 	IP54

AX26



S - Normally Stock
L - Limited Stock
O - Ex Order

STROBE LIGHTS

- 24V DC - 400mA
110V AC - 100mA
220V AC - 50 mA
- Candlepower: 900 000
- Flashes per min.: 120
- Acrylic lens with ABS base. Base Mounted.
- Super-intensive light for construction sites, signboards, outdoors etc...
- Colours: Red, Green, Yellow, Blue or Clear.



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
Asserta Beacon		DC10-30V AC230V	0.25A 0.015A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue ○ Clear 	IP44

ASSERTA BEACON



S - Normally Stock
L - Limited Stock
O - Ex Order



The distinctive shape of this industrial beacon and its robust construction are combined with highly efficient control of the light output to give a performance normally associated with much more powerful units. Available with different voltage supply for added versatility.

- Xenon beacon matching the Asserta range of sounders
- IP66 protection
- Adjustable flash rate (24Vdc version)
- Asymmetric light output
- A robust beacon complementing the Asserta industrial products
- Suitable for external use
- Provides extra differentiation between alarm events
- Lens is designed to optimise light output for maximum visibility
- Operating Temp: -25°C to +70°C
- Material: ABS, PC
- Body Colour: Red
- Lens Colours: Red, Amber, Blue or Clear



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
Asserta Beacon	Ergonomical design	DC10-30V AC230V	0.25A 0.015A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Blue ○ Clear 	IP66

SOLEX BEACON



S - Normally Stock
L - Limited Stock
O - Ex Order



Xenon Beacons are a cost effective compliment to audible alarms for use in areas of high ambient noise. The wide operating voltage and automatic synchronisation of the Solex make them a universal solution for all types of alarm and monitoring systems.

- 3 light output options
- 5 lens colour options
- 9V - 60V
- Tamper switch option (10cd)
- Performance to suit your application
- A colour to suit all events
- Wide operating voltage for maximum flexibility
- For use where security is an issue
- Operating Temp: -25°C to +70°C
- Material: ABS, PC Lens
- Body Colour: Red
- Lens Colours: Red, Amber, Blue, Green or Clear



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
Solex Beacon	Deep or Shallow Base options	DC10-30V AC230V	0.25A 0.015A	Xenon	<ul style="list-style-type: none"> • Red • Amber • Green • Blue ○ Clear 	Ip65

SUPER SOLO LED (SLF-...)

SOLO ECONOMY VERSION (SLFECO-...)

SOLO STROBE (SST-...)



S - Normally Stock
L - Limited Stock
O - Ex Order
S - Normally Stock
L - Limited Stock
O - Ex Order
S - Normally Stock
L - Limited Stock
O - Ex Order



STROBE LIGHTS



- Impact resistant lens & enclosure
- Suitable for outdoor use, supplied with Neoprene Gasket
- All versions available with the following base options:-
- ST=Standard
- GD=Gland
- GC=Gland & Cable
- Lens colours: Red, Yellow, Orange, Blue or Clear. (Green on special order).

SLF-....

- Voltages: 12, 24, 72, 115 or 230V AC/DC
- Low current consumption
- Shock and vibration resistant
- 15 Selectable flash-rate/Pattern combinations as well as steady on option.
- Life expectancy 150 000 hours @ 70% duty cycle.
- LED Colours: Red, Green, Amber, Blue or Clear.

SLFECO-....

- Voltages: 12, 24V DC or 110, 220V AC
- Low cost steady on LED beacon
- Ideal for domestic gate operation indicator
- LED Colours: Red, Green, Amber, Blue or Clear

SST-....

- Voltages: 115 or 230VAC ± 10%
- Flash rate: 72 flashes/minute
- Current consumption : 80mA@115VAC/40mA @ 230V AC
- Flash power : 4 Joules @ 115VAC/230V AC
- Long life expectancy > 1000 hours (70% duty cycle)
- Over-Voltage protection
- Micro processor controlled
- LED Colours: Red, Green, Amber, Blue or Clear.



S180US / UHS (Xenon Strobe Signal Lights)

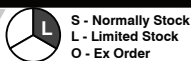


- Excellent long distance visibility from flashing light of the high capacity xenon lamp
- Adopts a translucent lens which provides a luminous light and subdued signal
- Convenient lamp change adopts lamp connector type structure
- Built-in buzzer available (Volume : Max. 90dB at 1m)
- S180UHS ultra high intensity strobe light has 3 built in high intensity xenon lamps.
- Materials: Lens-ABS, Housing-ABS
- Flashing rate : 60-80 flashes/min (2 time consecutively flashing off or two in a row)
- Ambient operating temperature : -30°C to +50°
- Protection rating : IP44



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
S180US	Luminous Lighting	DC12V DC24V AC110V AC220V	1.277A 0.655A 0.233A 0.186A	Xenon Lamp 280V-400V	• Red • Amber • Green • Blue	IP44
S180UHS	Hyper Brightness Luminous Lighting	DC12V DC24V AC110V AC220V	2.277A 1.055A 0.711A 0.422A	3x Xenon Lamps 280V-400V	• Red • Amber • Green • Blue	IP44

WALKING STANDING MAN



WSM-N-12D (12VDC neg.comm)
WSM-N-24D (24VDC neg.comm)
 Red & Green LED Indication

APPLICATIONS:

- Access control
- WSMFL** (Facia left)
- WSMFR** (Facia right)
- Facia's available in black or grey

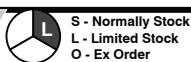
Custom personalized graphics available upon request for specific Access control zones

**Featuring new super bright surface mount LED's
 Reduced current, Higher brightness**



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
WSM	Ergonomical design	DC10-30V AC230V	0.25A 0.015A	LED	<ul style="list-style-type: none"> • Red • Amber • Blue ○ Clear 	IP66

HEX110 - 600A LED INDICATOR



These sealed LED indicator units are designed for harsh environment warning light usage. The electronics are internally encapsulated in an epoxy resin to protect against moisture and vibration damage. The whole unit is placed in a sealed enclosure to further prevent moisture ingress. All electronics are protected from voltage spike and are designed to work of a large range of voltages as would be expected on long cable lengths.

- Input Voltage range: 140 - 750VAC continuous
- Current Consumption: 21mA @ 600VAC
- Spike Protection: >800VAC for shorter than 2 seconds
- Light output (total): >60 000mcd @ 600VAC
- Wavelength: Typical 624nm
- Life Expectancy: >150 000 hours
- Single or Dual Aspect options

CR12:

Corrosion resistant plate



Model	Feature	Voltage	Current	Light Source	Lens Colours	Protection
HEX110	Dual or Single Sided	AC140V - AC750V	0.021A @ AC600V	LED	<ul style="list-style-type: none"> • Red • Amber • Blue ○ Clear 	IP65

AHLG-32-1

AHLG-32-2



AEROLED INSET AVIATION LANDING LIGHTS

These are brand new LED powered helipad lights in which the LED's are totally encapsulated. They give off a bright white, red or green light which is highly visible and which needs absolutely no maintenance and 5 years of continuous operation without any maintenance at all. Encapsulation of the LED means that the water cannot ingress into the lamp-holder as happens with conventional helipad lights which need continuous lamp changing and maintenance as water ingresses into the lamp holder.

A TRUE FIT AND FORGET SOLUTION.

The use of latest materials and technology enables these units to be considerably more economical than the conventional filament-based helipad lights. They also have a built-in individual brightness regulation so there is no need for the expensive current conformers that high voltage systems use. Due to the high efficiency of LED's low current requirements, Aeroleds can be operated on low voltages making the installation cable extremely economical and safe.

These Aeroled-helipads are in a class of their own. Very seldom one finds a superior product at a better price. They are totally non-corrosive making them ideal for marine applications and a special marine version is available. The normal version is manufactured from composite material, galvanized bolts and UV resistance so is thus resistant to corrosion. For not much extra, the marine version is available for deck-mounting. This utilizes stainless steel bolts and compositematerials as well as a special mounting gasket.



AERL-25

These elevated lights are used for both helicopter landing zone, edge lights or can be used on light aircraft runways as edge lights to indicate taking off and landing areas at night or in the daytime with poor visibility.

The lights are in accordance with

- ICAO and FAA regulations and
- CAP437 (offshore helipads)
- Taxiways: Blue (AERL-25-T-B)
- Runway Edge: White (AERL-25-R-W)
- Runway Threshold: Red and Green (AERL-25-TH-RG)
- Helipad Perimeter: Green or White (AERL-25-P-G)(AERL-25-P-W)
- Helipad Approach: Amber (AERL-25-A-A)
- Model: AERL-25
- Light intensity: 25cd to 230cd
- Light source: LED
- Service life of LED: 100, 000hours
- Signal mode: Steady-burning way
- Operating voltage: AC220V, 50/60 Hz(Option voltage eg. (AC120V, DC48V)
- Emitting color: Green or yellow
- Power consumption: 10W
- Overall size(mm): 136 by 136 by 280
- Installation size(mm): 93 by 93 by 12
- Weight: 1.4kg

AEROLED ELEVATED LIGHTS



AEROLED (Runway Threshold Light)

These are stalk mounted LED units mounted on frangible couplings (which break off if struck). They are red on the ones side and green on the other with green being at the appropriate angle for landing.



AEROLED (Taxiway Light)

This Product is used in taxiway at night or in the daytime with poor visibility as well as sed for shining blue light to accurately indicate the threshold of the taxiway. Used where taxiway indication is required in grassed areas and the stalk is required to raise the light to a visible level. Available in either White or Blue.



AEROLED (Helipad Perimeter Light)

This product is used on Helipads for night or daytime with poor visibility and depending on the type of landing zone will shine either green or white to accurately indicate the perimeter of the landing zone. If a complete Helipad Landing Zone lighting system is ordered, then all engineering and installation drawings are provided, provided full specs are supplied. Due to the lower voltage requirements no special skills are required.



AEROLED (Helipad Approach Light)

This product is used on Helipads for night or daytime with poor visibility and depending on the type of landing zone will shine Amber to accurately indicate the approach direction of the landing zone. If a complete Helipad Landing Zone lighting system is ordered, then all engineering and installation drawings are provided, provided full specs are supplied. Due to the lower voltage requirements no special skills are required.



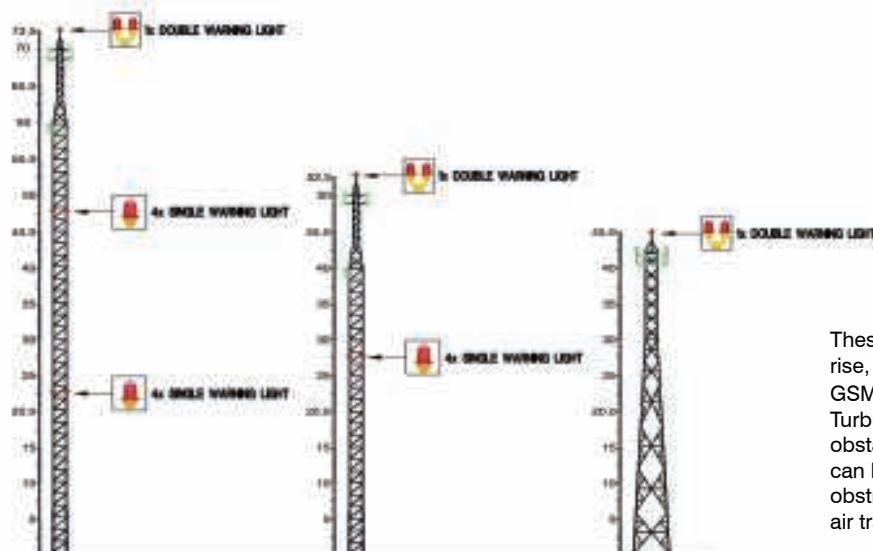
AEROLED (Helipad Perimeter Light)



- PC material with good impact protection strength, thermal stability, high transmittance.
- Bird spike against bird drop.
- International-advanced cold LED with low power consumption, high brightness and service life of light source reaching 100000hours.
- LED based on obstruction light last 15 times longer than traditional light source, incandescent light.
- About 96% less power than 116W incandescent light.
- Major Maintenance Cost Saving, Surge protection device inside light.
- Strong corrosion resistance, Shock and Vibrations protection and UV protection.
- Dawn to Dusk operating: Built-in photocell can let light work automatically at night, closed during the day.
- Free maintenance and 3/4 inch or 1 inch installation size being suitable for flagpole or tower installation way.
- There is one switch converting between Flashing mode and Steady burning mode.
- Five Years Warranty Period.
- Light intensity: $\geq 32.5cd$
- Working mode: Flashing (20times/minute as standard) or Steady adjustable
- Working way of two lights:
 - Flashing Main & Stand- by
 - Steady- burning Main & Stand- by
 - Steady- burning at the same time
 - Flashing at the same time
- Service life of LED: $\geq 100,000$ hours
- Operating voltage: AC220V (option voltage, eg. AC120V, AC110V, DC48V)
- Overall size(mm):258 by 136 by 320
- Installation size:3/4inches or 1 inches
- Material: Housing is PC Base: die casting aluminum
- Weight:2Kg
- Emitting color: Aviation red
- Ambient temperature:-40°C~+70°C
- Wind load: 80m/s
- Protection standard: Ip65.



Type A LED



These Lights can be used alone on the top of the High-rise, Building, High Chimney, marking towers (Telecom, GSM, Microwave & TV) , High Pole, Tower Crane, Wind Turbine, etc whose height is lower than 45m. When obstacle object is higher than 45m, this series of products can be used with Medium-intensity or high-intensity obstruction light to potentially hazardous obstructions to air traffic with a steady or flashing red safety light.

AEROLED (CONCRETE EMBEDDING CONTAINER)

DIE-CAST INSET AVIATION LANDING LIGHTS

Our AEROLED mounting container is a robust steel container for a easy and manageable way of mounting our Aviation Lighting with the ability to have access to wiring connections and future maintenance on both the light and the wiring. Once bolted onto a steel mounting plate with a thick rubber gasket the completed unit is water tight. Made from 3mm steel and then hot-dipped galvanised these finished units are rust and corrosion resistant making them suitable for coastal areas as well as extreme heat and moisture stricken areas.

Discuss with our consultant on positioning, drainage & installation at planning stage.

**AEROLED-WINDSOCK** (External Illumination)

We offer several types of illuminated wind cone as the requirements vary depending on the application, mounting requirement and the location. Even the colour of the actual sock should be selected according to the background colour. This basic sheet gives type 1 which is mounted in the ground. We also have brackets for the sides of buildings, mounting plates for mounting on concrete slab etc. The windsock can be illuminated internally or externally with the external illumination being lower cost and also easier for maintenance, whereas the internal illumination requires slip-rings.

All wind cone assemblies should have an obstruction light and must be mounted well clear of landing and departure zones. (request detail on approach and departure zones for your application) It is also possible to have types with frangible poles which break off if hit by the helicopter. These are usually used where the wind cone needs to be mounted fairly close to the windsock and could present a danger to flight operations. Generally every attempt should be made to mount the windsock well clear of all flight operation, as even a frangible coupling type can present a serious obstacle.

**AEROLED-LIGHTING CONTROL UNIT**

- Lighting protection.
- Light dimming switch.
- Radio dimming and control (only if requested).
- Test switch (Over-ride).
- 220v to 24v transformer.
- Individual control switches for each circuit (Perimeter, flood and obstruction lights).
- Main Power supply cut-off switch.

Control unit box Specs.

- External adjustable mounting bracket, horizontal, vertical or 45° angles.
- Internal Stainless Steel hinges.
- Mounting brackets are Stainless Steel.
- DIN rail mount with M6 bolt and nut.
- The height of the DIN rail is easily adjustable.
- Removable inner door.
- Material - SMC.
- IP 66.



AEROLED (Die-Cast Inset Lights)

DIE-CAST INSET AVIATION LANDING LIGHTS

These give off a bright white, red or green light which are highly visible and which needs absolutely no maintenance and 5 years of continuous operation without any maintenance at all. Installation of these lights are easier due the face that they feature all-in-one design which means that the water cannot ingress into the lamp-holder which might happen with conventional helipad lights which need continuous lamp changing and maintenance as water ingresses into the lamp holder.

- Light intensity: $\geq 100\text{cd}$
- Light source: Ultra high intensity LED
- Base material: Aluminum
- Service life of LED: 100000hours
- Signal mode: Steady-burning
- Operating voltage: AC220V, 50/60 Hz (Option voltage. AC120V, DC48V)
- Emitting color: Blue, Green, White, Red and Amber
- Power consumption: 20W
- Overall size: 194mm x 138mm
- Installation size: 199mm x 146mm
- Ambient temperature: $-55^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Weight: 4.9kg
- Protection standard: Ip68

**AEROLED** (Solar Powered)

- International advanced solar panel reaching at least 10 years service life.
- Easy installation and relocation: no specialized work crew required, limited air traffic disruption, and lights are immediately operational.
- Comprehensive protection in voltage short, over-voltage, floating, charge and temperature.
- Built-in Solar Panel.
- Self-contained and low maintenance: all components are incorporated within a compact, stand-alone unit.
- Strong corrosion resistance, Rain and Snow, Shock and Vibrations protection and UV protection.
- International-advanced cold LED with low power consumption, high brightness and service life of light source reaching 100000hours.
- Clean, renewable, green and reliable energy source.
- Dusk-to-dawn operation: Built-in photocell inside light can let light work at night and close during the day automatically.
- At least 5 days autonomy.
- Recyclable batteries with the lightest environmental.

- Optional wireless ON/OFF control provides on-demand operation from up to 3km away. Antenna is inside light base.
- Push button interface for local ON/OFF control. Toggle switch interface for steady-burning/flashing working mode.
- Optional Battery Charge port: 100~240VAC
- Optional NVG - compatible infrared (IR) LEDs.

Emergency operations, Helipads, Touchdown and Lift- off area (TLOF), Final Approach and Take- off area (FATO), Taxiway lighting, Runway edge lighting – (ICAO Annex 14), Portable or expedited airfield lighting, Threshold lighting and obstruction lighting.

SOLAR POWERED PORTABLE AIRFIELD & HELIPAD LIGHTS



OSL1-ES-R



S - Normally Stock
L - Limited Stock
O - Ex Order

SITELITE BEACON

- UV stabilised power coated, international orange.
- SABS Inspection Authority No. S/S244.
- Thermal shock resistant glass lens.
- See Coled's (page over) for possible lamp replacements for these units.
- IP66.

The SITELITE Beacon consists of a circular pressure diecast aluminium base with integral mounting bracket. A fresnel dome lens covers the light source and is held in place securely against a silicon rubber by means of a retaining ring hinged to the base on one side and fixed on the other side by a lockable, spring loaded latch. When latched, the fitting is IP66 (water and dustproof) as well as suitable for certain hazardous areas. The hinge has an articulated action which enables the unlatched dome to be lifted, moved sideways and swung away to clear the lamp in the base. The dome may then be allowed to hang down, suspended by the hinge alongside of the base, while servicing the lamp.

It comes standard with an E27 lamp holder.
Other lamp holder options are available.



Type A LED



S2SL/S1ES/BS-COM

Single SITELITE Beacon supplied complete with die-cast aluminium enclosure and universal pole clamp.

- Max 100W lamp
- For use with Annunciator Box
- Code: S2SL/S1ES/BS-COM



S2SL/S2ES/BS-COM

Double SITELITE Beacon supplied complete with die-cast aluminium enclosure and universal pole clamp.

- Max 100W lamp
- For use with Annunciator Box
- Code: S2SL/S2ES/BS-COM



S2SL/S1ES/U-R

Single SITELITE Beacon supplied complete with a 20mm CCG cable box and universal pole clamp.

- Max 100W lamp
- Code: S2SL/S1ES/U-R



S2SL/S1ES/BS - BS304

The Stainless Steel single SITELITE Beacon complete with a Cr12 or 304 stainless steel enclosure and universal pole clamp.

- For use with Annunciator Box
- Max 100W lamp
- Code: S2SL/S1ES/BS (3CR12 Stainless Steel)
- Code: S2SL/S1ES/BS304 (304 Stainless Steel)



COLED-E ES Type (E27)



S - Normally Stock
L - Limited Stock
O - Ex Order

ADDA

CONE LED

COLED-B BC Type (B22)

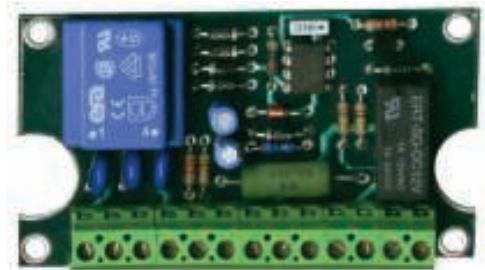
Voltage: 110V or 220VAC (other voltages available on special order)
Colour: Red or Green (other colours available on special order)
(Flashing or steady on).

This ultra bright lamp has been designed to meet the requirements of a low level warning light to the ICAO specification. It shines light in all directions (360°) at a 7.5° angle from the horizontal. It exceeds the 10 candela requirements. At 230VAC power dissipation is only 5W resistive & 8.6W reactive.



WARNING BEACON CONTROL UNIT

This unit is specifically designed for monitoring dual type warning beacons in critical situations where failure of a beacon needs to be monitored and standby beacon employed. The unit monitors the current flow into the primary beacon and when this exceeds or falls below a certain level the secondary beacon is lit and an alarm contact is closed. The unit offers a switch-on timer where both beacon lamps are illuminated for 20 seconds on startup to ensure correct functioning of both lamps during installation. The alarm contact also changes state on startup for checking of alarm circuits.



FLOBSTR (Encapsulated Lamp Flasher)

This product was designed specifically for mining applications where a flasher is required to flash an incandescent lamp for warning purposes. The flasher is a fully solid state device capable of switching up to 400W of resistive load. The flasher is encapsulated in an epoxy resin block to add reliability and easy mounting. The epoxy block has an aluminium heatsink on the bottom surface and should be mounted on a heat conductive surface if loads of larger than 200W is to be switched. Termination is via four M3 brass screws to facilitate the use of ring lugs.

- Large resistive load switching capability
- Zero crossing switching for prolonged bulb life
- Fully encapsulated
- Spike resistant
- Economical and simple to fit via two mounting holes
- 110 or 220V AC only
- Approximately 80 flashes per minute allowing very little cooling time of lamp filament and therefore prolonging bulb life.



DAYLIGHT SWITCH

Input voltage: 225VAC Nominal
Maximum load: 2kW resistive (tungsten filament)
750VA inductive (with ballast)
Duty cycle: 100%

It is recommended that the unit be protected from moisture by sealing the cover & screw holes with a silicone sealant. Test the unit by applying power & covering the sensor with the hand.

The lamp/s should light after an approximate delay of a few seconds.

For heavier loads or inductive loads, ie those lamps requiring a ballast to operate, such as gas filled lamps, (mercury vapor, sodium, fluorescent, etc.) an external contactor may be used.



- Material SMC: (sheet moulding compound)
- Operating Temperature: -50°C to + 200°C
- Glow wire capability / flammability: 960° / UL94 v0
- Expected UV life (direct exposure): 25 years +
- Degree of Protection: Allbrox 3,4,5,6,7.1 IP66 / Allbrox 8 IP65
- Security level: 2 and 3
- Environment (Indoor / Outdoor): Indoor and Outdoor use
- High corrosion resistance.
- Large accessories list.
- Even with door window enclosure maintains IP rating.
- External mounting bracket with a good load capacity (see spec chart below).
- Extremely high tensile strength
- IP66 with individual 1/4 turn locks; IP54 single handle multi-cam lock (Allbrox 8).
- The "GREEN ALTERNATIVE" Environmentally friendlier due to low manufacturing impact.
- Does not contain heavy metals, asbestos, halogens or other toxic materials.
- In these enclosures the glass fibre used for reinforcing has a diameter greater than 14 micron and is not hazardous to health.



Part Number	Description	W	H	D	W1	H1
ALL-003	Allbrox 3 with SMC Device plate	250	350	200	235	310
ALL-004	Allbrox 4 with SMC Device plate	300	400	200	285	360
ALL-005	Allbrox 5 with SMC Device plate	350	500	200	335	460
ALL-006	Allbrox 6 with SMC Device plate	400	600	200	385	560
ALL-007.1-L	Allbrox 7.1 Landscape with SMC Device plate	828	709	287	754	634
ALL-007.1-P	Allbrox 7.1 Portrait with SMC Device plate	709	828	287	754	634
ALL-008-P	Allbrox 8 Portrait with SMC Device plate	800	1000	320	706	906
ALL-008-L	Allbrox 8 Landscape SMC Device plate	1000	800	320	906	706

Weight loading

This varies according to the different sizes of Allbrox enclosures: see table below

Part Number	Description	Weight loading (kg)
ALL-003	Allbrox 3 with SMC Device plate	43.75
ALL-004	Allbrox 4 with SMC Device plate	43.75
ALL-005	Allbrox 5 with SMC Device plate	56.25
ALL-006	Allbrox 6 with SMC Device plate	61.25
ALL-007.1	Allbrox 7.1 with SMC Device plate	125
ALL-008	Allbrox 8 with SMC Device plate	113.75



Polyester GRP Enclosures - Inner & Outer doors

Allbrox with Inner Door

Part Number	Description
ALL-004/IN/DOOR	Allbrox 4 Inner Door
ALL-005/IN/DOOR	Allbrox 5 Inner Door
ALL-006/IN/DOOR	Allbrox 6 Inner Door



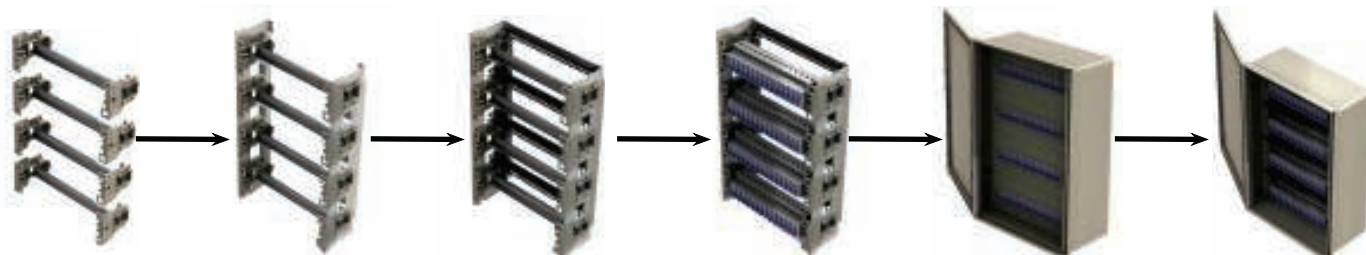
Allbrox with Glass or PC Door

Part Number	Description
ALL-004/CLEARPC	Allbrox 4 with clear Polycarbonate door
ALL-004/CLEARGL	Allbrox 4 with glass door
ALL-005/CLEARPC	Allbrox 5 with clear Polycarbonate door
ALL-005/CLEARGL	Allbrox 5 with glass door
ALL-006/CLEARPC	Allbrox 6 with clear Polycarbonate door
ALL-006/CLEARGL	Allbrox 6 with glass door



Allbrox Distribution Board Kit

Part Number	Description	No. of Rows	MCB's Per Row	No. of Neutral Bars	No. of Earth Bars
ALL-004/DBK-A	Allbrox 4 Distribution Board Kit Assembled	2	10	3	2
ALL-004/DBK-F	Allbrox 4 Distribution Board Kit Flat Packed	2	10	3	2
ALL-005/DBK-A	Allbrox 5 Distribution Board Kit Assembled	3	13	4	4
ALL-005/DBK-F	Allbrox 5 Distribution Board Kit Flat Packed	3	13	4	4
ALL-006/DBK-A	Allbrox 6 Distribution Board Kit Assembled	4	15	3 and 1	10 and 30
ALL-006/DBK-F	Allbrox 5 Distribution Board Kit Flat Packed	4	15	3 and 1	10 and 30



LK360

- Super high speed (50mm/s) time saving
- Special tube feed slot, easy and convenient installation
- Auto back off function to save material
- Updated exit design, material out smooth
- PC and U-Diskport combined, updating by U-Disk available
- PVC tube, heat shrink tube and label tape can be printed on
- Model LK-360
- Thermal transfer printing
- Resolution 300dpi
- Printing character height 1.3mm - 8mm
- Max number of input pages 100
- Tube size printable Ø2.5 - Ø8mm
- Label size printable 6mm. 9mm. 12mm
- Flat shrink tube printable 14mm(max)
- Printing speed 50mm/sec
- Display LCD, white color background
- Characters printable English, Numbers and Symbols
- Entry method Standard 83-key
- Memory About 100 000 characters
- Material cutting method Automatic half-cutting & full-cutting
- Power supply DC12V 2A



CABLE ID PRINTER

SI2KEVO PRINTER

SI2KEVO, featuring USB 2.0 port, higher printing speed, new driver capable to manage all functions without need of local keyboard settings and pre-loaded setting profiles for easier and faster installation, quickly and efficiently creates highly visible and durable marking.

- Versatile: Wide variety of materials available and for a wide range of marking applications: wire/cable, cable ties, terminal blocks, internal and external panel (push buttons, channels, name plates, tags, etc.); immediately ready to print as turned on, even after a long stop.
- High quality: High resolution (300 dpi) to print not only alphanumeric, but also bar codes, logos, graphics. Resin-based ribbon provide very high durability of marking.
- High-speed printing: Up to 8500 tags per hour, automatic feeding allows huge operator's time saving on higher volume tags (cable, terminal blocks, wire marking tags)
- Easy to Use: Tags come in modules that easily feed through the printer, in automatic, single or manual feeding mode. Tags are organized in pre-broken cards, for easy and smart mounting.
- Low Maintenance: Easy-to-access print and feed area.
- Compact: Compact dimensions, low weight and industrial design.



SI2KEVO Technical features

Type	Table printer
Technology	Thermo Transfer system - Resin based Ribbon
Feeding modes	Automatic, Semiautomatic and manual feeding available
Resolution	300 dpi
Printable area	54 x 496 mm (height x width)
Format of printable media (maximum)	80 x 500 mm (height x width)
External dimensions	423 x 240 x 208 mm
Weight	9,5 Kg
Windows OS compatibility	Windows, XP, Vista, 7
Fonts available	Windows True-type
Graphic formats compatibility	.gif, .jpg, .jpeg, .bmp, .wmf.
Printing speed	up to 60 mm/second
Ribbon cartridges available	SI2KSBN/B - Black colour; SI2KRBN/R - Red colour
Autocleaning system of printable media	Cleaning roll & Cleaning cassette
Connections interface	USB 2.0 (Full speed)
Operating Environment	+15°C to +32,5°C; 10% to 85% Rh
Storage conditions	+5°C to +35°C ; 5% to 90%Rh
Voltage	from 100V to 240V AC, 50/60Hz
Maximum Power Consumption	135W
Display	LCD backlighted panel; high visibility characters
Built-in keyboard	Printer setting can be managed by driver or by local keyboard

PC user interface

Printer status monitor available on PC screen



User friendly

All the settings can be managed from the driver



Easy installation

Driver installation wizard preloaded setting profiles



Si2K02

UNIVERSAL TAGS

These tags go into all sleeves used in the 3M™ Grafoplast™ TRASP* Manual System, including wire and cable sleeves, cable ties sleeves, pin terminal sleeves, and self-adhesive sleeves. Specifications: PC/ABS material that meets UL-94 V-0 and can be used in temperatures ranging from -58°F to 176°F (-50°C to 80°C).

3M™ Grafoplast™ Universal Tags Si2K02 Series for Various TRASP System Sleeves



Part #	UPC (013166-)	Approx. Dim. in. (mm)	Color	No. Characters		Pkg Qty Tags (Modules)
				Standard	Narrow	
Si2K02W/10N	47436	.15 x .4 (3.7 x 10)	White	6	7	1152 (32)
Si2K02Y/10N	47440	.15 x .4 (3.7 x 10)	Yellow	6	7	1152 (32)
Si2K02W/15N	47438	.15 x .6 (3.7 x 15)	White	8	12	768 (24)
Si2K02Y/15N	47442	.15 x .6 (3.7 x 15)	Yellow	8	12	768 (24)
Si2K02W/18N	47439	.15 x .7 (3.7 x 18)	White	10	14	576 (18)
Si2K02Y/18N	47443	.15 x .7 (3.7 x 18)	Yellow	10	14	576 (18)
Si2K02W/30	46958	.15 x 1.2 (3.7 x 30)	White	18	24	600 (30)
Si2K02Y/30	46959	.15 x 1.2 (3.7 x 30)	Yellow	18	24	600 (30)

Standard Sleeve 200 series

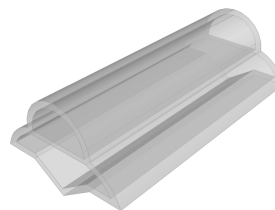
These standard transparent PVC sleeves are designed to accommodate a wider range of cables and wires and are particularly useful for jobs that encounter a variety of diameter ranges. They are more pliable than the 100 series sleeves. Specifications: Meets UL-94 Class V-0 standards and can be used in temperatures ranging from -58°F to 176°F (-50°C to 80°C).



PLEASE CONTACT US FOR LIST OF SIZES AND SPECS AVAILABLE

Fine Wire Sleeve 190 series

This transparent PVC sleeve is designed for marking fine wires in a clear and legible manner. Specifications: Meets UL-94 Class V-0 standards and can be used in temperatures ranging from -58°F to 176°F (-50°C to 80°C).



Part #	UPC (013166-)	Min. OD		Max. OD		Length		Matching Si2K Tags		No. of Si2K Characters		Qty.
		mils	mm	mils	mm	in.	mm	White	Yellow	Standard	Compressed	
190/10	19385	24	0.6	47	1.2	0.39	10	Si2K02W/10N	Si2K02Y/10N	6	7	1,000
190/15	19390	24	0.6	47	1.2	0.59	15	Si2K02W/15N	Si2K02Y/15N	8	12	1,000

Snap-on Sleeves 301-304

The snap-on sleeve is ideal for marking cable after the electrical connection has already been made. The bottom of the snap-on sleeve is made of a rigid base that snaps onto the cable and the top of the sleeve is made of a soft, transparent PVC sleeve that is designed to hold tags.

Specifications: Meets UL-94 Class V-0 standards and can be used in temperatures ranging from -58°F to 176°F (-50°C to 80°C). Refer to pages 36-38 for a quick reference selection guide by wire type and conductor size.



PLEASE CONTACT US FOR LIST OF SIZES AND SPECS AVAILABLE

MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

WWW.MIMIC.CO.ZA

CONTROLLERS

COST EFFECTIVE FAMILIES (Temperature, PID PWM Output)



N1030
Temperature



N1030T
Temperature



N1040
Temperature



N1040T
Temperature



N1020
Temperature



N480D
Temperature

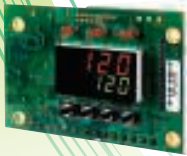


N960
Temperature



N2020
Temperature

ADVANCED FEATURES FAMILIES (Universal Input, RS485 Modbus, Ramp & Soaks, PID Analog Output, 4-20 mA retransmission, Digital Input, Square Root)



N120
Process



N3000
Process



N1200
Process



N1200-HC
Process



N2000
N2000-S
Process

PANEL INDICATION



N1540
Universal Indicator



N1040i
Indicator



N1500
N1500-LC / Load cells
N1500-FT / Flow rate indication
Universal Indicator





ADDA B.C.D. INDICATORS are available in DIN panel mount (24x48 & 48x96), and also in large digit (100mm) wall mount. The ADDA SYSTEMS range of B.C.D. instruments has been specifically designed to provide easy interfacing to Programmable Logic Controllers. Two alternate input drive variations are available:

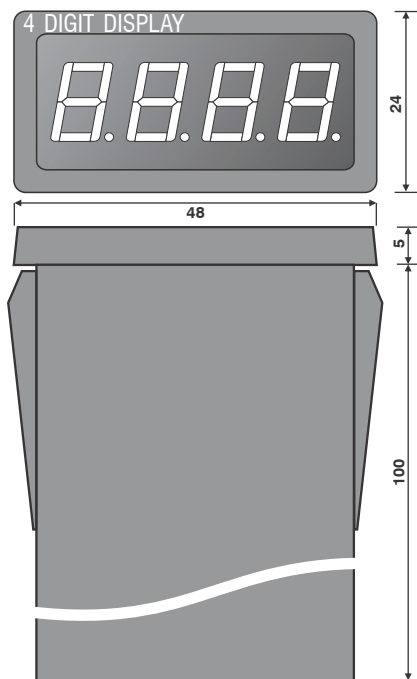
- 1- Direct Drive with four Binary Coded Decimal inputs for each digit. This allows for easy programming, but requires 16 P.L.C. outputs.
- 2- Multiplexed Drive with four common Binary Coded Decimal inputs and one input for each digit to control the latching. Thus, only eight P.L.C. outputs are required for the first panel meter and four additional outputs for each subsequent device. (Multiplexing is by digit.) For large systems other more efficient multiplexing schemes are available.

As accessories for the ribbon cable versions we also offer 10 & 26 way D.I.N. Omega Rail Ribbon Cable to Terminal transition boards and Ribbon Cable assemblies.

To "special order" ADDA SYSTEMS can also supply these units with 5V, 12V, 15V or 24V supply voltage and logic levels.

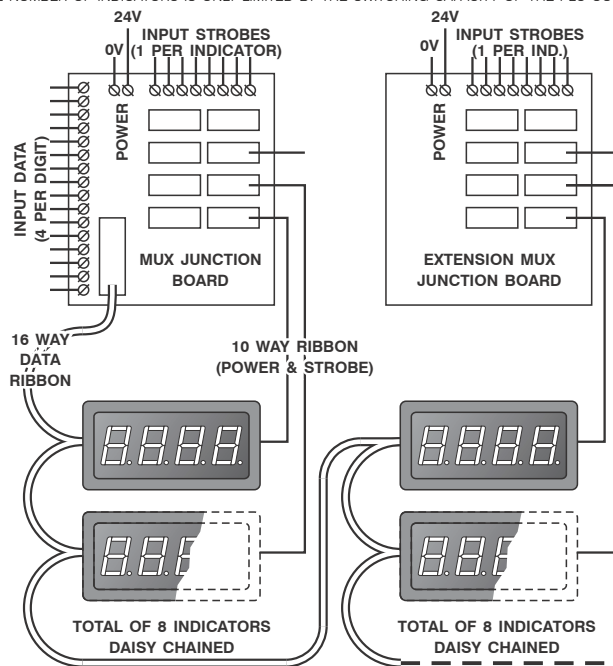
24V DC DISPLAY, 24V POSITIVE LOGIC, DIRECT OR MULTIPLEXED INPUTS, TERMINAL OR RIBBON CABLE OUTPUTS, MULTI-INSTRUMENT MULTIPLEXED SCHEMES AVAILABLE.

ABD14RI24D



GROUP CONNECTION OF MULTIPLE INDICATORS VIA MUX JUNCTION BOARDS MULTIPLEXING BY INSTRUMENT

THE NUMBER OF INDICATORS IS ONLY LIMITED BY THE SWITCHING CAPACITY OF THE PLC OUTPUTS



B.C.D. METER DRIVER BOARDS



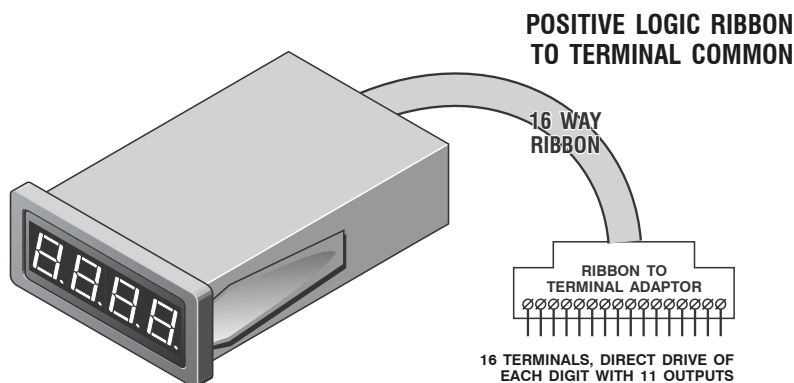
VOLTAGES APPLIED TO INPUTS

LOGIC "1" HIGH

GUARANTEED MINIMUM INPUT VOLTAGE	20.6V
TYPICAL MINIMUM INPUT VOLTAGE	15.5V
ABSOLUTE MAXIMUM INPUT VOLTAGE	28.5V

LOGIC "0" HIGH

GUARANTEED MINIMUM INPUT VOLTAGE	20.6V
TYPICAL MINIMUM INPUT VOLTAGE	15.5V



ABD2...(20mm digit height)



S - Normally Stock
L - Limited Stock
O - Ex Order



BCD INDICATORS

- 24V d.c. display.
- 24V Positive Logic.
- Direct or Multiplexed inputs.
- Terminal or Ribbon cable outputs.
- Multi-instrument multiplexed schemes available.
- Din 48x96mm
- Cutout 45x92mm
- ABD21DR 24V: Direct Drive Ribbon with 1 Digit
- ABD22DR 24V: Direct Drive Ribbon with 2 Digit
- ABD23DR 24V: Direct Drive Ribbon with 3 Digit
- ABD24DR 24V: Direct Drive Ribbon with 4 Digit
- ABD21DT 24V: Direct Drive Terminals with 1 Digit
- ABD22DT 24V: Direct Drive Terminals with 2 Digit
- ABD23DT 24V: Direct Drive Terminals with 3 Digit
- ABD24DT 24V: Direct Drive Terminals with 4 Digit
- ABD21MR 24V: Multiplex Ribbon with 1 Digit
- ABD22MR 24V: Multiplex Ribbon with 2 Digit
- ABD23MR 24V: Multiplex Ribbon with 3 Digit
- ABD24MR 24V: Multiplex Ribbon with 4 Digit
- ABD21MT 24V: Multiplex Terminals with 1 Digit
- ABD22MT 24V: Multiplex Terminals with 2 Digit
- ABD23MT 24V: Multiplex Terminals with 3 Digit
- ABD24MT 24V: Multiplex Terminals with 4 Digit



Special split display
(optional silkscreened text)

ABD14624D (38mm digit height)



S - Normally Stock
L - Limited Stock
O - Ex Order

These meters have been designed to be used with programmable logic controllers and function in the same manner as the four digit BCD meters in our range. The case is a standard DIN 48 * 96 case and termination is provided with removable terminals on the rear of the unit. High brightness red 14mm led characters are used for the display. The units are available as standard with 24V logic and supply voltage level and special voltages can be supplied on special order. Can be cascaded to save PLC output lines.

- Din 48x96mm
- Cutout 45x92mm



APM4020-24D 24VDC



S - Normally Stock
L - Limited Stock
O - Ex Order

APM4120-24D (24VDC with 2 alarm set points)



S - Normally Stock
L - Limited Stock
O - Ex Order

- 4 Digit
- 48 x 96mm Bezel
- 45 x 92mm Cutout
- High brightness Red 20mm LED display.
- Programmable input range: 0-20mA and 4-20mA
- User programmable display range -1999 to 9999 (decimal point selectable)
- Controls available behind display lens (hidden controls prevent unauthorized adjustment) or Alternatively pushbuttons on front face with lockout selector on rear of enclosure.
- High quality tactile pushbuttons (no membrane to peel off).
- Programmable Hi and Low voltage free contacts with adjustable hysteresis (APM4120 only)
- LED indication of Hi and Low Alarms (APM4120 only)
- Removable plug in terminals
- 3 year guarantee
- High accuracy
- Supply voltage: 24VDC $\pm 15\%$
- Power consumption: 2,5W max
- Accuracy, Linearity: 0,05% of full scale, ± 1 count
- Internal A-D resolution: 200 000 counts
- Input Impedance: 100 Ω
- Temperature coefficient: 20 ppm/ $^{\circ}\text{C}$ typ
- Conversion rate: 1-5 per second (adjustable)
- Settling time: 1 second
- Memory retention: Non volatile operation
- Operating temperature range: $-5^{\circ}\text{C} \pm 50^{\circ}\text{C}$
- Alarm relay contact ratings: 1A@28VDC



DPB205H-24D(Horizontal)



S - Normally Stock
L - Limited Stock
O - Ex Order

ADDA

BARGRAPH DISPLAYS

DPB205V-24D(Vertical)



S - Normally Stock
L - Limited Stock
O - Ex Order

- 20 LED bars each 1.47 x 4mm
- Signal input 4-20mA
- Supply voltage 24V DC non isolated
- Adjustments for center, span & zero
- Center linearity
- Bezel 24x72x90mm(D)
- Cutout 21x69mm



ABG502....



S - Normally Stock
L - Limited Stock
O - Ex Order

- 50 High brightness Red or Yellow dual bar display.
- Factory calibrated to various ranges 0-2V/0-10V/0-20mA/4-20mA
- User adjustable for full scale deflection/Bar or dot mode etc.
- Galvanically isolated input.
- Peak hold function with external reset.
- Standard DIN size cut-out.
- Custom scaling available on request with customized legends.
- Vertical or horizontal format front plate options available.
- 3 year guarantee
- Also available as Modbus Bargraph display
- Supply voltage: 110/220Vac \pm 10%
12/24Vdc \pm 15%
- Power consumption: 4 W max
- Bezel: 48x144x70mm(D)
- Cut-out: 45x138mm



N1540



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

UNIVERSAL INDICATOR

N1540 process meter was designed with advanced technology for highest performance and reliability in the most demanding applications. The N1540 can be easily installed in panels and enclosures where space is at a premium.

- Accepts thermocouples J, K, T, E, N, R, S, B, Pt100, 0-50 mV, 0-5 Vdc, 0-10 Vdc, 0-20 mA and 4-20 mA
- Adjustable indication offset / Adjustable digital filter
- Programmable indicating range from -1999 to 9999
- Sampling rate: up to 50 measurements per second
- Two relay alarms: SPST 1.5 A / 240 Vac
- Alarm functions: LO, HI, differential, differential LO, differential HI, sensor break
- Flash function (display flashes under alarm condition)
- Bright 14 mm display
- Auxiliary 24 Vdc voltage source
- USB Interface for configuration and monitoring
- IP65 UL 94 V-2 front; IP20 UL 94V-0 enclosure
- Size: 96 x 48 x 35 mm
- Power: 100~240 Vac/dc $\pm 10\%$



USB
Interface

N1040i



S - Normally Stock
L - Limited Stock
O - Ex Order

The Universal Indicator N1040i combines, in one compact and convenient 1/16 DIN enclosure, a high precision microprocessor based analog circuit with a very simple configuration interface to monitor a wide range of analog variables. Compatible with most common thermocouples, Pt100 RTD and linear as 4 to 20 mA and mV.

- Thermocouple inputs J, K, T, N, R, S, B, E, RTD Pt100 and linear 0-20 mA, 4-20 mA, 0-50 mV, 0-5 V e 0-10 V in one model
- Analog input signal retransmission over 0-20 mA or 4-20 mA
- Up to 2 programmable alarms outputs
- Up to 2 relay outputs, SPDT and SPST-NO
- Alarm functions: minimum, maximum, differential, minimum differential, maximum differential and sensor break
- Universal switching power supply ensures high precision even under mains voltage oscillations
- Power Supply: - 100 to 240 Vac ($\pm 10\%$), 50/60 Hz - 48 to 240 Vdc ($\pm 10\%$) - 24 to 240 Vdc ($\pm 10\%$) (model N1040i-F)
- Dimensions: 48 x 48 x 80 mm



N1500



S - Normally Stock
L - Limited Stock
O - Ex Order

N1500LC (Load Cell)



S - Normally Stock
L - Limited Stock
O - Ex Order

N1500FT (Flow Meter)



S - Normally Stock
L - Limited Stock
O - Ex Order

The N1500 series of Universal Process Indicators are high performance instruments used for monitoring analog signals in the vast majority of industrial and laboratory processes.

- Accepts: type J, K, T, E, N, R, S and B thermocouples; Pt100, 4-20 mA, 0-50 mV and 0-10 Vdc
 - Programmable scaling from -1999 to +9999 and adjustable digital filter
 - Accepts and linearizes non-linear 4-20 mA signals from thermocouple transmitters
 - Accepts front panel input of custom created non-linear curve with up to 20 segments
 - Selectable decimal point for Pt100, 4-20 mA and 0-50 mV
 - Alarms: Two 3 A SPST relay alarms in the basic version and two extra relays optional
 - Alarm functions: HI, LO, differential HI, diff. LO and sensor break detection
 - Five digit 13 mm ultra bright LED display
 - Standard 24 Vdc output for field transmitters
 - Front panel: IP65, Polycarbonate UL94 V-2; Back panel: IP30, ABS + PC UL94 V-0
 - Dimensions: 48 x 96 x 92 mm
- **N1500LC** - Dedicated for load cell application
 - Dimensions: 48 x 96 x 92 mm (1/16 DIN)
- **N1500FT** - Flow Meter Tailor made for flow applications, this instrument measures and displays both the instant measured value and the total value.
- Inputs: 4-20 mA, NPN, PNP, dry contact or coil signal
 - 4-20 mA input with integral function and square root option
 - Capable of reading pulsed signals from 0.1 to 8000 Hz
 - Isolated 4-20 mA output (instant flow) and pulse output (NPN - totalized)
 - Dual 6-digit displays, allows for several display messaging configuration
 - Alarms: 2 SPDT 3 A/ 250 Vac relays; Configurable alarms: HI, LO and sensor break



APM4060-220A (220VAC)



S - Normally Stock
L - Limited Stock
O - Ex Order

ADDA

BIG DIGIT DISPLAYS

- Programmable input range: 0-20mA and 4-20mA
- Standard DIN enclosure: size 144 x 288 x 60mm (Depth)
- Cutout: 139 x 283mm
- User programmable display range-1999 to 9999 (decimal point selectable)
- Controls available behind display lens (hidden controls prevent unauthorized adjustment) or alternatively pushbuttons on front face with lockout selector on rear of enclosure. (Standard)
- High quality tactile pushbuttons (no membrane to peel off).
- Programmable Hi and Low voltage free contacts with adjustable hysteresis
- High brightness Red or Green 57mm LED display with user variable brightness.
- LED indication of Hi and Low Alarms
- Removable plug in terminals
- 3 year guarantee
- High accuracy
- Supply voltage: 230Vac 10%
- Power consumption: 15W max
- Accuracy, Linearity: 0,05% of full scale, 1 count
- Internal A-D resolution: 65 000 counts
- Input Impedance: 100
- Temperature coefficient: 20 ppm/ °C typ
- Conversion rate: 5 per second
- Settling time: 1 second
- Memory retention: Non volatile operation
- Operating temperature range: -5°C+50°C
- Alarm relay contact ratings: 2A@250Vac



57mm High Digit Display

WDIND4100 (Big Digit Display - 4 Digit Programmable)

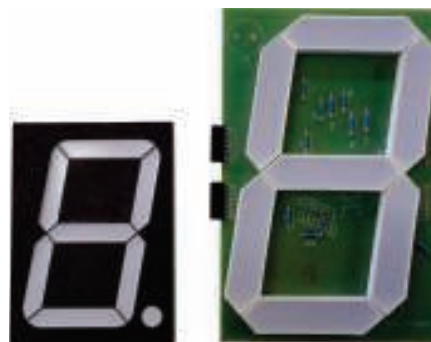


S - Normally Stock
L - Limited Stock
O - Ex Order

- Top quality Industrial Displays using large bright 100mm or 180mm digits.
- These units are for indoor use only, and are ideal for situations requiring a large clear display.
- The digits can be read from approx 60m away (depending on ambient light).
- Models are available to operate off a variety of input signals : 4-20mA, 0-10V, B.C.D etc
- 4 & 6 Digit Modbus versions also available.
- Black or Cream case options
- Optional Vinyl lettering
- Programmable input range : 0-20mA and 4-20mA
- User programmable display range -1999 to 9999 (decimal point selectable)
- Controls on the side of the housing.
- High Brightness Red 100mm LED display with user variable brightness.
- 3 Year guarantee
- High accuracy
- Supply voltages; 24Vdc ± 15 , 115VAC or 220VAC 10%
- Power consumption; 22W max
- Accuracy, linearity; 0,05% of Full Scale, ± 1 count
- Internal A-D resolution; >260 000 counts
- Input Impedance; 100 W
- Temperature coefficient; 30 ppm/ °C typ
- Conversion rate; 1-5 per second (adjustable)
- Settling time; 1 second
- Memory retention; Non volatile operation
- Operating temperature range; 5°C - 50 °C



Optional Vinyl Lettering



100 or 180mm High Digit Options

SGD 24-M (2.4" Programmable TFT Panel Meter)

SGD 28-M (2.8" Programmable TFT Panel Meter)

SGD 35-M (3.5" Programmable TFT Panel Meter)



S - Normally Stock
L - Limited Stock
O - Ex Order



PANEL PILOT

The SGD series are programmable panel meters featuring dual analogue inputs, alarm outputs and 2.4";2.8" or 3.5" TFT colour touchscreen display options. Configured using the free PanelPilot M Software, choose from an ever-increasing number of configurations including bar-graph, tank level, analogue style and trend graphs. Then customise colours, text labels, units and input scaling before uploading to a display via USB.

- Display: 2.4", 2.8" or 3.5" colour TFT screen
- Resolution: 320x240 pixels(QVGA)
- Operating Voltage: 4 - 30V d.c.
- Measurement Range: 0 - 40V d.c.



SGD 24-M420
SGD 28-M420
(2.4";2.8" Programmable TFT 4-20mA Meter)



SGD 24-M-IP
(2.4" Waterproof Programmable TFT Panel Meter)
SGD 24-M-IP420
(2.4" Waterproof Programmable TFT 4-20mA Panel Meter)



SGD 35-M420
(3.5" Programmable TFT 4-20mA Loop Meter)

SGD 43-A (4.3" Display with Analogue, Digital, PWM and Serial Interfaces)

SGD 70-A (7" Display with Analogue, Digital, PWM and Serial Interfaces)



S - Normally Stock
L - Limited Stock
O - Ex Order

SGD 70-A is a 7" AND SGD 43-A is a 4.3" are capacitive touch displays designed for use with PanelPilotACE Design Studio, a free drag-and-drop style software package for rapid development of advanced user interfaces and panel meters. This off the shelf display features a wealth of hardware interfaces, including four 16-bit bipolar analogue inputs (to a maximum of ±40V d.c.), eight digital input/output pins, two alarm outputs, four 8-bit PWM outputs, serial RS232 and RS485 and an additional add on board to measure temperature.

SGD 43-A

- Display: 4.3" TFT with 262k colours
- Touchscreen: Capacitive touch screen
- Resolution: 480 x 272px
- Processor: Freescale i.MX283 (454MHz, 32bit, ARM 9)
- Analogue Inputs: Four 16-bit to ±40V d.c.
- Supply: 5 to 30V d.c. (300mA typical at 5V d.c.)
- Outside Dimensions: 119.3mm (4.7") x 79.8mm (3.1") x 20.0mm (0.8")

SGD 70-A

- Display: 7" TFT with 16.7M colours
- Touchscreen: Capacitive touch screen
- Resolution: 1024 x 600 pixel
- Processor: Freescale i.MX 6SoloX (ARM Cortex A9 & M4)
- Analogue Inputs: Four 16-bit to ±40V d.c.
- Supply: 5 to 30V d.c. (300mA typical at 5V d.c.)
- Outside Dimensions: 186mm (7.3") x 122mm (4.8") x 21mm (0.8")

Can also be used for data logging

SGD 43-ATP

- 4.3" panel mounted display module with capacitive touch screen
- 4 channel thermistor temperature board
- 4 x temp probes
- -40°C to +125°C

SGD 70-ATP

- 7" panel mounted display module with capacitive touch screen
- 4 channel thermistor temperature board
- 4 x temp probes
- -40°C to +125°C



SGD 43-A



SGD 70-A



SGD 43-ATP
4 channel Temp data logger



SGD 70-ATP
4 channel Temp data logger



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

A series of low profile digital panel meters, designed to be mounted in a 5.5mm (7/32") diameter hole. The EM series has a splashproof option, by fitting the rubber seal provided, when installing the meters. All have a bezel size of 44x21mm.

EMA 1710 (Analog DC Voltmeter)

- 9 segment virtual analog LCD
- Colour scale
- Auto-zero
- 1V full scale deflection
- No calibration required
- 3 wire connection



Single Hole Fixing.

EMT 1900 (Thermometer)

- 3 digit LCD with °C and °F
- 12.5mm (0.5") digit height
- 4 measurement ranges
- Internal or external sensor
- 5 wire connection



Single Hole Fixing.

EMV 1025S-01 (DC Voltmeter)

- 3½ digit LCD with low batt .sign
- 12.5mm (0.5") digit height
- 200mV full scale reading
- 3 wire connection



Single Hole Fixing.

EMV 1200 (2 Wire DC Voltmeter)

EMV 1200-40 1-40V d.c Version

- 3 digit LCD
- 12.5mm (0.5") digit height
- Signal powered
- Range: 4-25V
- Reverse polarity protection
- No calibration required
- 2 wire connection



Single Hole Fixing.

EMV 1125 (DC Voltmeter)

- 3½ digit LCD low battery warning
- 12.5mm (0.5") digit height
- Programmable decimal points
- Auto-zero, auto polarity
- 6-10 wire connection
- Supplied with screw terminal board



Single Hole Fixing.

EMC 1500 (Elapsed hour meter Single-Hole Mounting)

- 5 digit LCD with annunciators
- 9.0mm (0.35") digit height
- Volt sense input
- Reset and trip/total inputs
- Leading zero blanking input
- Pulse output every hour
- Remembers elapsed time on power loss
- 3-8 wire connection



Single Hole Fixing.



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

The EM32 Series consists of an LCD and LED digital voltmeter designed to be panel mounted in most low and medium volume applications. Panel cut-out: ϕ 32.5mm. These meters feature an 8mm digit height, 3½ or 4 digit display, 3 decimal points, auto-polarity, auto zero, 200mV full scale reading and low current consumption. Each product has been designed so that NO soldering is required. Connection is via screw terminals & options are selected via jumper links. The modules feature a round metal bezel, requiring a 32.5mm (1.28") diameter cut out, it is secured with the nut provided. Protection from the front to IP67 / NEMA 4X standards is achieved by fitting the rubber seal provided between the module and panel during assembly.

EM32-1B

- 3½ digit LCD with 8mm digit height
- 200mV d.c. full scale reading
- 500µA @ 3.5 to 6.5V d.c. or 150µA @ 7.5 to 14V d.c. Operation



EM32-1B-LED

- 3½ digit LED with 8mm digit height
- 200mV d.c. full scale reading
- 50mA @ 5V d.c. operation



LED

EM32-4-LED

- 4 digit LED with 8mm digit height
- 20mA @ 5V d.c. Operation
- Drives up to 4 External LED's
- Connection via 2 rows of posts



LED

EM32-1900 LCD NTC Thermometer

- 3 digit LED with 12.5mm digit height
- Range -40 to 105°C
- 3 samples / sec
- Supply Voltage 4 to 28 V d.c.
- Supply Current 1- 10mA





S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

A new series of digital panel meters combining a low profile with miniature "Component style" body. The SP series can provide splash-proof protection, when the supplied silicon seal is fitted. All these units have a 35x22mm bezel & a 34x21mm cut-out.

Sp100 (LED Voltmeter, 12 Pin version)

- 3½ digit LED voltmeter
- 9.4mm (0.37") digit height
- Auto-zero, auto polarity
- Programmable decimal points
- 200mV full scale reading
- Display blanking facility
- Compatible with other manufacturer's modules
- DIL connection
- Digital hold version **Sp101**

LED



Sp200 (LCD Voltmeter, 12 Pin version)

- 3½ digit LCD voltmeter
- 9.75mm (0.38") digit height
- Low battery warning
- Auto-zero, auto-polarity
- Programmable decimal points
- 200mV full scale reading
- LED backlighting
- Compatible with other manufacturer's modules
- DIL connection



Sp300 (LED Voltmeter, 8 Pin version)

- 3½ digit LED voltmeter
- 9.4mm (0.37") digit height
- Auto-zero, auto polarity
- Programmable decimal points
- 200mV full scale reading
- SIL connection

LED



Sp300 BLUE LED backlighting



SP 300 - 8 Pins.

LED



Sp400 (LCD Voltmeter, 9 Pin version)

- 3½ digit LCD voltmeter
- 9.75mm (0.38") digit height
- Low battery warning
- Auto-zero, auto-polarity
- Programmable decimal points
- 200mV full scale reading
- LED backlighting
- SIL connection



Sp400-EB

- 3½ Digit LCD Voltmeter
- Enhanced Black LCD
- LED Backlighting
- 200mV Full Scale Reading
- 9 Pin SIL Connection
- 7 colour options



Sp400 BLUE LED backlighting



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

The SP5 series consists of a 2-wire, signal powered voltmeter, 1V d.c. virtual analog voltmeter and a graphics display in a clip mount housing. This range of modules has a very low profile design. Once fitted, the face of the module sits almost flush with the panel. At the rear of the module, the mounting depth is also kept to a minimum, allowing use of the space behind the module. For harsher applications, the SP5 series is supplied with a rubber seal which, once fitted makes the modules splashproof from the front. Typical applications for this series include handheld instrumentation and process equipment. All these units have a 48x36mm bezel & a 47x35mm cut-out.

SP5-GFX1 (128 x 64 Pixel Graphics Display)

- 128 x 64 pixel LCD
- LED backlighting
- 6 o'clock viewing direction
- Serial data interface
- No calibration required
- Supplied with splashproof seal
- SIL 10-way connection



SP8-100 (LED Voltmeter, 8 Pin version)

- 3½ digit LED voltmeter
- 14.2mm (0.56") digit height
- 200mV d.c. full scale reading
- 50mA @ +5V d.c. power supply
- Auto-zero and auto-polarity
- Programmable decimal points
- Bright red LED display



DPM SERIES



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DIGITAL PANEL METERS

A series of digital panel meters with a one-piece, snap-in design, making installation a quick and easy procedure. Each meter has a large display in a miniature housing. All are backlit or use LED displays.

DPM116 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. 12-way SIL.

**DPM125** (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. Single-in-line SIL.

**DPM125-BL** (3 ½ Digit LCD Voltmeter LED backlit)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. Single-in-line SIL.

**DPM160** (4 ½ Digit LCD Voltmeter)

This 200mV/2V voltmeter features a 4½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting.

**DPM160S** (4 ½ Digit LCD Voltmeter Single Rail Version)

This 200mV/2V voltmeter features a 4½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting.

**DPM 1AS-BL** (Compact 3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 5.5mm (0.22") digit height, one-piece snap-in housing and LED backlighting.

**DPM2000** (3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 15mm (0.6") digit height and a low-profile bezel for mounting.

**DPM2000s** (3 ½ Digit LCD Voltmeter Single Rail Version)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 15mm (0.6") digit height and a low-profile bezel for mounting.

**DPM 2AS-BL** (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 8.25mm (0.32") digit height, one piece snap-in housing and LED backlighting.

**DPM340** (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LED with 8mm (0.31") digit height, one piece snap-in housing.



LED

DPM342 (Compact 4-20mA Loop Powered LCD Meter)

Compact 4-20mA loop powered panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, LED backlighting and one-piece snap-in housing.

**DPM 3AS-BL** (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, one-piece snap-in housing and LED backlighting.

**DPM40** (200mV LED Voltmeter)

This panel meter features a 3½ digit LED display with 11mm (0.43") digit height.



LED

DPM400 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 10mm (0.4") digit height, annunciators and a low-profile bezel for mounting.

**DPM500** (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and a low-profile bezel for mounting.

**DPM500S** (3 ½ Digit LCD Voltmeter Single Rail)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and a low-profile bezel for mounting, Single Rail.



DPM SERIES



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DIGITAL PANEL METERS

A series of digital panel meters with a one-piece, snap-in design, making installation a quick and easy procedure. Each meter has a large display in a miniature housing. All are backlit or use LED displays.

DPM600 (200mV LCD Voltmeter with Annunciators)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and annunciators.

**DPM600S** (200mV LCD Voltmeter with Annunciators)

This Single rail panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and annunciators.

**DPM700** (200mV LCD Voltmeter with Annunciators)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and LED backlighting.

**DPM700S** (Bezel Mounted LCD Voltmeter with LED Backlighting)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and LED backlighting.

**DPM702S** (Dual 200mV Voltmeter with LED Backlighting)

This dual channel 3½ digit LCD panel meter features 6.4mm (0.25") digit height, 200mV d.c. full scale reading, auto-zero and auto-polarity.

**DPM742-BL** (4-20mA Loop Powered LCD Meter with LED Backlighting)

4-20mA loop powered panel meter featuring a 3½ digit LCD with 12.7mm (0.5") digit height and LED backlighting.

**DPM750S-BL** (200mV LCD Voltmeter with Backlighting)

This panel meter features a 3½ digit LCD with 12.7mm (0.5") digit height, annunciators and LED backlighting.

**DPM942** (Large 4-20mA Loop Powered LCD Meter)

This large loop powered indicator features a 3½ digit LCD with 19mm (0.75") digit height.

**DPM750S-EB-W** (LCD Voltmeter with White Digits & Black Background)**DPM942-FPSI** (Large 4-20mA Loop Powered LCD Meter with Red/Green Programmable Backlighting)

This large loop powered indicator features a 3½ digit LCD with 19mm (0.75") digit height and programmable LED backlighting.

**DPM942-BL** (Large 4-20mA Loop Powered LCD Meter & LED Backlighting)**DPM950** (Large Voltmeter with LED Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and LED backlighting.

**DPM950S** (Large 200mV LCD Single Rail Voltmeter with LED Backlighting)

Compact 4-20mA loop powered panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, LED backlighting and one-piece snap-in housing.

**DP950S-EB** (Large 200mV Single-rail Voltmeter with White Digits & Black Background)

This large panel meter features a 3½ digit LCD with 19mm (0.75") white on a black background.

**DPM950S-FPSI** (Large 200mV LCD Voltmeter with Red/Green Programmable Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and programmable LED backlighting.

**DPM959B** (Large 200mV LED Voltmeter)

This large panel meter features a 3½ digit LED display with 19mm (0.75") digit height.

LED

**DPM970** (Large AC LCD Voltmeter with LED Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and LED backlighting.



OEM SERIES



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DIGITAL PANEL METERS

Designed as component style meters, the OEM series are ideally suited to both Medium & high volume applications. Typical uses for this series include personal instrumentation, integral sensor indicators and power supply monitoring. The range consists of two LCD meters, a bare PCB style meter & metal framed version and a potted LED meter. The LED meter is dimensionally compatible with the metal framed LCD version and has the same digit height.

OEM 1B (Ultra Compact LCD Voltmeter)

This ultra-compact, low current consumption panel meter features a 3½ digit LCD voltmeter with 8mm (0.31") digit height.



OEM 1B-LED (Ultra Compact LED Voltmeter)

This ultra-compact, low current consumption panel meter features a 3½ digit LED voltmeter with 8mm (0.31") digit height.



V SERIES



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DIGITAL PANEL METERS

A series of digital panel meters intended for use in high volume applications. Each meter has good performance, is easy to use and offers value for money. The V 1, V 125 and V 600 modules are only available in packs of 10. All modules are supplied with bezels. An evaluation pack V EVAL, containing one of each meter and a demonstration unit is also available.

V1 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 6.3mm (0.25") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- DIL connection



V125 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 12.5mm (0.5") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- SIL connection



V600 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 15mm (0.6") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- Compatible with industry-standard types
- SIL connection



N480D



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

TEMPERATURE CONTROLLERS

The N480D series of PID temperature controllers was designed for non-experienced novice users for combining extreme simplicity in operation with high performance only found in expensive high end controllers. It is a low-cost instrument which can be easily installed and operated. It accepts most thermocouples and Pt100 RTD, features a relay and pulse output for driving solid state relays and optionally can be supplied with a linear 4 to 20 mA output. Auto tuning PID function, dual display, full range universal power supply and ramps soak function are standard.

- Accepts thermocouples type J range -50 °C to 760 °C, type K range -90 °C to 1370 °C, type T range -100 °C to 400 °C, type R range 0 to 1760 °C, type S from 0 to 1760 °C, type E range -30 a 720 °C, type N range -90 a 1300 °C com with cold junction compensation.
- Accepts 2 or 3-wire Pt100 RTD, range -200 °C to 530 °C, with cable resistance compensation.
- Pt100 excitation current: 0.170 mA.
- Four-digit 10 mm red display for measured variable and four-digit 7 mm green display for set point.
- Sampling rate: 5 measurements per second.
- 5 Vdc 20 mA logic control output.
- 1 SPDT relay and 2 SPST 3A @ 250 Vac relays.
- Power: 100 to 240 Vac/dc, 50/60 Hz; optional 24 Vdc/ac.
- Power consumption: less than 9 VA.
- Operating environment: 0 to 55 °C, 20 to 95 % RH.
- Front panel: IP65, Polycarbonate UL94 V-2.
- Back panel: IP30, ABS+PC UL94 V-0.
- Dimensions: 48 x 48 x 110 mm (1.89" x 1.89" x 4.33").



USB Interface



N960



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

TEMPERATURE CONTROLLERS

Great substitute for the old and obsolete analog controllers for holding extreme simplicity in operation and yet featuring the highly accurate performance of digital technology. The 20 mm high display can be viewed from far away and the big functional keyboard can be operated by users wearing gloves.

- Display: 4 digits, 20 mm, high efficiency
- Input: Thermocouples and Pt100
- Control output: SPST relay and voltage pulse, both available in the basic model
- Power: 100-240 Vac/dc or 24 Vdc/ac (Optional)
- Ramp and soak: one controlled ramp and one timed soak are standard
- Auto tuning PID
- Detects any sensor failure
- Keyboard protection by hardware
- Size: 96 x 96 mm, ABS enclosure



USB
Interface



N1020



S - Normally Stock
L - Limited Stock
O - Ex Order

The temperature controller N1020 features advanced performance capability for the most complex and critical applications. Based on a high-end microprocessor and designed with a sophisticated auto-adaptive PID algorithm it continuously adjusts the PID parameters for best controlling performance. .

- Switching power supply: 100 to 240 Vac and 24 to 240 Vdc
- High brightness red LED display
- Universal input: thermocouples, Pt100 RTD and 50 mV
- Auto-adaptive PID control
- PID parameters auto-tuning
- Dual output: 1 pulse and 1 relay
- Output functions: control, alarm 1, alarm 2
- Configurable alarms with 8 different functions
- Silicone keypad
- Front pannel: IP65, polycarbonate UL94 V-2
- Enclosure: IP20, polycarbonate UL94 V-2
- Size: 48 x 24 1/32 DIN



USB
Interface

N1030



S - Normally Stock
L - Limited Stock
O - Ex Order

N1030 is a temperature controller that features a high performance PID algorithm in a compact housing, with only 35 mm depth. Its compact construction and the convenient detachable connector provide an easy set up on short profile panels, optimizing the space and reducing costs.

- Single Loop PID and ON/OFF controller
- PID auto tuning
- Dual relay output or 1 pulse and 1 relay versions
- Six alarm functions: LO, HI, differential, differential LO, differential HI, sensor break
- Thermocouples J, K, T and Pt100 input
- Dual red and green four-digit display
- Front panel material PC UL94 V-2 / Enclosure material: PC UL94 V-2
- Front panel protection: Ip65
- Operating environment: 0 to 60 °C, 20 to 80 % RH
- Dimensions: 48 x 48 x 35 mm
- Power supply: 100 to 240 Vac/dc or 12 to 24 Vdc / 24 Vdc/ac



N1040



S - Normally Stock
L - Limited Stock
O - Ex Order

N1040T (Time & Temp Controller)



S - Normally Stock
L - Limited Stock
O - Ex Order

The microprocessor based N1040 was conceived for low cost applications and yet achieving high degree of accuracy. It features a short depth enclosure of only 70 mm thus reducing panel space considerably. Another important innovation is the exclusive removable wiring connection block which translates into ease of use during installation process.

- Accepts thermocouples J, K, T and Pt100 RTD without any hardware change or recalibration
- Auto tuning of PID parameters
- Outputs: logic pulse (ideal for driving solid state relays) and 1 SPST relay
- Alarm functions: low, high, differential, low differential, high differential, sensor break
- Two alarm functions can be directed to one single output
- LBD (Loop Break Detection) function detects failures in the control loop
- Simplified programming menu makes operator programming very easy
- Silicone rubber frontal keypad / Keypad protection
- Front panel protection: Ip65



USB
Interface

N1100



S - Normally Stock
L - Limited Stock
O - Ex Order



TEMPERATURE CONTROLLERS

N1200



S - Normally Stock
L - Limited Stock
O - Ex Order

N1100 Universal Controller boasts features required in a majority of Industrial processes. Input and output functions are selected through the front keyboard without hardware change. **N1200** is an advanced self-adaptive PID controller with an algorithm that constantly monitors the process performance and adjusts PID settings in order to always obtain the best possible control response. A single model is able to accept most industrial sensors and signals and provides all output types required to control different processes. The multi-purpose inputs and outputs can be combined to provide tremendous versatility with extremely high accuracy in the most demanding applications

- Accepts thermocouples J, K, T, E, N, R, S, B, Pt100, 0-50mV, 0-5Vdc and 4-20mA
- Outputs: 2 relays SPST, Pulse for SSR and linear 4-20mA
- Up to 2 alarms with timers from 0 to 6500s
- Input resolution: 12000 levels
- PV or SP retransmission in 0-20/4-20mA
- Bumpless Auto/Manual function
- Remote setpoint input (4-20mA)
- Programmable soft start (0-9999s)
- Auto tuning PID
- Access password for configuration protection
- Sizes: 48 x 48 x 106 mm



USB Interface



N2000 & N2000S



S - Normally Stock
L - Limited Stock
O - Ex Order

N3000 (big digit)



S - Normally Stock
L - Limited Stock
O - Ex Order

The N2000&N3000 Universal Process Controllers offer a breakthrough in versatility for holding in one single instrument all the major features required in the vast majority of industrial processes. From the very simple applications as a temperature controller to the most complex systems of distributed control with PLC's or SCADA networks. These units are specific for applications in controlling servo motorized valves, servo actuators and dampers by means of two time proportional relays. **N2000S** has twice as many proportionally driven relays to control servo-positioning valves and dampers.

- Accepts thermocouples type J, K, T, N, R, S; Pt100, 0-50mV, 0-5Vdc and 4-20mA
- Outputs: 2SPDT and 2 SPST relays, pulse for SSR and linear 4-20mA
- 4 software configurable alarms
- Up to 2 alarms with timers from 0 to 6500s
- Input resolution: 12000 levels
- Built-in auxiliary 24Vdc voltage source
- PV or SP retransmission in 4-20mA
- Bumpless Auto/Manual function
- Remote setpoint input(4-20mA)
- Programmable soft start (0-9999s)
- Auto tuning PID
- Ip65 UL 94 V-2 front panel; Ip20 UL94 V-0 enclosure
- Silicone Rubber keypad
- Power 100~240 VAC/DC ±10%
- **N2000**: Size 48x96x92mm
- **N3000**: Size 96x96x92mm



USB Interface



N2000



N3000

N2020



S - Normally Stock
L - Limited Stock
O - Ex Order

The N2020 PID temperature controller was designed to deliver high accuracy performance while keeping low cost. It features Auto/Manual function accessible via front keypad and several other advanced control characteristics.

- Accepts thermocouples J, K, T and Pt100 RTD
- Outputs: 2 SPST relays, Pulse and optional 4-20 mA
- Dual red and green 4-digit displays
- Sampling rate: 10 measurements per second
- Internal resolution: 15000 levels
- Alarm functions: LO, HI, differential LO and differential HI
- Quick function keypad: ON/OFF/auto/Manual, etc
- PV or SP retransmission in 4-20 mA
- Loop Break Detection function / Fail safe function
- Ramp and soak functions programming
- Access password for configuration protection
- IP65 UL94 V-2 front; P20 UL94 V-0 enclosure
- Size: 48 x 96 x 92 mm
- Power: 100~240 Vac/dc ±10%



USB Interface



Selection Guide: NOVUS CONTROLLERS

COST EFFECTIVE FAMILIES



We Measure, We Control, We Record

Controller Type	N1030	N1030T	N1040	N1040T	N1020	N480D	N960	N2020	N120	N3000	N1200	N1200-HC	N2000	N2000-S
PID Output Control Mode	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature	Temperature	Process	PWM & Analog (optional)	PWM & Analog	PWM & Analog	PWM & Analog	Process
Auto Tune PID	PWM	PWM	PWM	PWM	PWM	PWM & Analog (optional)	PWM & Analog (optional)	PWM & Analog (optional)	✓	✓	✓	✓	✓	✓
Self-Adaptive PID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Loops	1	1	1	1	1	1	1	1	2	1	1	2	1	1
Control Action	Heat or Cool	Heat or Cool	Heat or Cool	Heat or Cool	Heat or Cool	Heat or Cool	Heat or Cool	Heat or Cool	Heat & Cool with Overlap	Heat or Cool	Heat or Cool	Heat & Cool with Overlap	Heat or Cool	Heat or Cool
Output Relay	1	1	1	1	1	2	2	2	2	Up to 4	Up to 3	Up to 3	Up to 4	Up to 4
Output Pulse	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output Analog						Optional	Optional	Optional	✓	✓	✓	✓	✓	✓
Ramp to Soak Function						✓	✓	✓	✓	✓	✓	✓	✓	✓
Ramp & Soak Programs						✓	✓	✓	✓	✓	✓	✓	✓	✓
Soft-Start Function									✓	✓	✓	✓	✓	✓
Bumpless Function									✓	✓	✓	✓	✓	✓
Manual Operation									✓	✓	✓	✓	✓	✓
Display	Double	Double	Double	Double	Single	Double	Double	Double	Double	Double	Double	Double	Double	Double
Input Type			J, K, T, e Pt100		J, K, T, R, S, E, N, Pt100 e 0-50mV	J, K, T, R, S, E, N e Pt100		J, K, T, e Pt100	J, K, T, R, S, E, B, N, Pt100, 4-20mA, 0-50mV, 0-10 V	J, K, T, R, S, E, B, N, Pt100, 4-20mA, 0-50mV e 0-5V	J, K, T, R, S, E, B, N, Pt100, 4-20mA, 0-50mV e 0-10V	J, K, T, R, S, E, B, N, Pt100, 4-20mA, 0-50mV e 0-5V	J, K, T, R, S, E, B, N, Pt100, 4-20mA, 0-50mV e 0-5V	J, K, T, R, S, N, Pt100, 4-20mA, 0-50mV e 0-5V
Input Resolution Levels	32767	32767	32767	32767	32767	32767	32767	32767	32767	32767	32767	32767	32767	20000
Input Sample Rate	5 sps	5 sps	55 sps	55 sps	55 sps	55 sps	55 sps	20 sps	55 sps	10 sps	55 sps	55 sps	10 sps	5 sps
Detection of Sensor Break	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Detection of PID Loop Break									✓	✓	✓	✓	✓	✓
Detection of Heater Break									✓	✓	✓	✓	✓	✓
Alarm Number	1	1	2	2	2	2	2	2	2	4	4	4	4	2
Alarm Types		Low, High, Dif, DifLo, DifHi and InputErr			Low, High, Dif, DifLo, DifHi, Ton, TEnd e InputErr	Low, High, Dif, DifLo, DifHi, EndSoak, Event and InputErr		Low, High, Dif, DifLo, DifHi, Event and InputErr	Low, High, Dif, DifLo, DifHi, Event and InputErr	Low, High, Dif, DifLo, DifHi, ResisFail, Event and Input Error	Low, High, Dif, DifLo, DifHi, Event and InputErr	Low, High, Dif, DifLo, DifHi, Event and Input Error	Low, High, Dif, DifLo, DifHi, Event and InputErr	Low, High, Dif, DifLo, DifHi, ResisFail, Event and Input Error
Digital Input									✓	✓	✓	✓	✓	✓
Remote Setpoint Input										✓	✓	✓	✓	✓
Setpoint Retransmission										✓	✓	✓	✓	✓
Square Root										✓	✓	✓	✓	✓
Timer		✓		✓	✓				Optional					
Data Logger Function									✓					
Password Protection									✓					
24V Power Supply for Sensors	✓	✓	✓	✓	Optional	✓	✓	✓	✓	Optional	Optional	Optional	Optional	Optional
RS-485 ModBus RTU									✓					
USB									✓					
CE Certification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UL Certification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Frontal IP65	✓	✓	✓	✓	✓	✓	✓	✓	n/a	✓	✓	✓	✓	✓
Power Supply					100-240 Vac/dc	100-240 Vac/dc or 12-24 Vdc (Optional)	100-240 Vac/dc or 12-24 Vdc (Optional)	100-240 Vac/dc						
Panel Format	48x48 DIN 1/16	48x48 DIN 1/16	48x48 DIN 1/16	48x48 DIN 1/16	48x24 DIN 1/32	48x48 DIN 1/16	96x96 DIN 1/4	96x48 DIN 1/8	Board only Dual Display	96x96 DIN 1/4	48x48 DIN 1/16	48x48 DIN 1/16	96x48 DIN 1/8	96x48 DIN 1/8
Model Variations	2	1	9	2	2	8	2	1	2	4	11	9	4	4

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APM4060



APM4020



DATA LOGGING

COLD CHAIN MONITORING RANGE



EL-CC



EL-PDF



EL-GFX DATA LOGGERS



EL-WIFI DATA LOGGERS

EL-USB DATA LOGGERS



EL-USB-1-LCD
Temperature with LCD



EL-USB-2
Temperature & Relative Humidity



EL-USB-CO
Carbon Monoxide



EL-USB-5
Event, Count & State



EL-USB-3
Voltage



EL-USB-TC-LCD
Thermocouple with LCD



TAGTEMP-NFC



Bluetooth

WiFi

3G



LogBox BLE



LogBox WIFI



LogBox 3G



LogBox-RHT-Climate



LogBox-RHT-LCD

SMART THERMO BOX EP





S - Normally Stock
L - Limited Stock
O - Ex Order

New LogBox Connect family provides the wireless connectivity of new times and the compatibility with cloud data portals, like Novus Cloud. Wireless communication, large autonomy and inputs for any type of sensors are the big highlights of LogBox Connect. It has large display and removable bracket and connectors. The configuration and data download can be performed with mobile application LogChart BLE or notebook/desktop software Nxperience, used to access all LogBox Connect models via USB.

LOGBOX BLE (Bluetooth)

- Monitoring of inner facilities that allow a visual inspection of data loggers
- Configuration and data download via Bluetooth with smart phone using LogChart BLE app
- External power supply 10-30Vdc or 4 AA alkaline batteries
- Autonomy higher than 2 years with batteries (5 min acquisition interval)



Applications:



Environment Monitoring of Laboratories



Temperature Recording in Cold Rooms



Climate Control in Data Centers

LOGBOX WiFi

- Monitoring of larger facilities with WiFi existing infrastructure;
- Configuration and data download via USB or WiFi with NXperience PC software;
- External power supply 10-30Vdc (backup operation with 4 AA alkaline batteries);
- WiFi Data transmission to NXperience, NOVUS Cloud, SCADA or other cloud systems;



Applications:



Climate Monitoring in Distribution Centers



Monitoring of Freezers and Refrigerators in the Cold Chain



Commercial or Supermarket Refrigeration

LOGBOX 3G

- Monitoring in mobile applications or distributes over long distances;
- Configuration and data download via USB with NXperience PC software;
- External power supply 10-30Vdc;
- Internal rechargeable backup battery for up to 8 hours autonomy;
- Data transmission via 3G cellular network to NOVUS Cloud, SCADA or other cloud systems



Applications:



Telemetry of Utility Services



Monitoring of Sensible Products in Transportation



Climate Control in Agricultural Greenhouses



S - Normally Stock
L - Limited Stock
O - Ex Order



Model with HMI



Model without HMI

FieldLogger is a versatile, powerful and yet cost effective data logger handling analog, digital and other types of variables with high resolution and speed. It is a high performance and high connectivity equipment and yet easy to configure and operate.

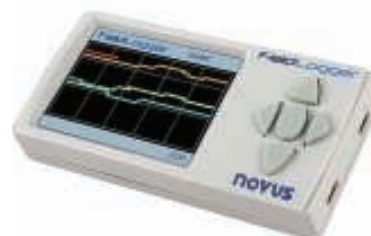
It has 8 configurable analog inputs that can read thermocouples, Pt100, Pt1000, voltage and current signals. It also has 2 relay outputs and 8 digital ports individually configurable as inputs or outputs. Up to 128 mathematical channels can be used to perform operations on the measured values. Up to 32 alarm events can be detected, allowing output activations, e-mails and SNMP traps sending.

Its RS485 interface can operate as a Modbus RTU master or slave. As a master, it can read and log up to 64 external channels. It has a 10/100 Mbps Ethernet interface that allows for access through a browser (HTTP), FTP (client and server), e-mails sending (SMTP), SNMP and Modbus TCP. FieldLogger has one USB interface to be connected to a computer (for configuration, monitoring and data download) and another USB port for plugging a flash driver for data retrieval. The 512k logging basic memory is used to store data and it can be greatly expanded with an SD card. An exclusive color HMI can be attached or remotely installed for local indication or configuration. A user friendly configuration software can be accessed by Ethernet, USB or RS485 and also provides means for on-line monitoring, logged data downloading and exporting to spread sheets and other formats.

- 8 universal analog input channels:
 - Thermocouples, V, mV, mA, Pt100 and Pt1000;
 - Reading and logging rates of up to 1000/second;
 - 24 bit A/D conversion resolution.
- 8 digital I/Os (individually configured as input or output).
- 2 relay outputs (NO, NC and common).
- RS485 interface (Modbus master or slave).
 - When acting as a master, can read up to 64 registers from other slaves;
 - Registers read can be used in logging, alarms or mathematical operations.
- Ethernet interface with a lot of services available:
 - Sends alarm warning e-mails (SMTP);
 - Provides web pages with channels and status information (HTTP);
 - Allows logged data download via FTP (client and server);
 - Accesses status and channels values through network management software (SNMP and traps);
 - Allows Modbus communication by ethernet interface (Modbus TCP).
- USB-device interface for configuring, monitoring and download.
- USB-host interface for logged data retrieval through a USB flash drive.
- Up to 32 configurable alarms.
 - Alarm actions can include:
 - Activating relays;
 - Activating digital outputs;
 - E-mails sending to multiple receivers;
 - Sending SNMP traps;
 - Starting and/or stopping loggings.
- Up to 128 virtual channels.
 - Basic mathematical functions to be applied on other channels: sum, subtraction, multiplication,
 - division, logic (AND, OR and exclusive OR), square root and power.
- 24 Vdc output for powering up to eight 4-20 mA transmitters.
 - AC power (100 to 240 Vac);
 - DC Power (19 to 30 Vdc) optional (2011).
- Detachable human-machine interface (optional).
 - Keypad and color TFT QVGA display;
 - RS485 communication with FieldLogger.
- Loggings:
 - Up to 100 channels can be logged at a configurable rate.
 - Data download through the configuration software or through the freely distributed download DLL.
 - Rated UL

FIELD LOGGER HMI

- Colour QVGA screen 2.4"
- 96 x 48mm format
- Shows the current channel values or a historical chart
- Indicates FieldLogger status and alarms information
- Allows parameter checking and configuration
- Local or remote installation with Rs485 communication
- Optional kit for HMI remote monitoring



EL-USB Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DATA LOGGERS



PART NUMBER	CASE	FUNCTION	DESCRIPTION
EL-USB-1 EL-USB-1-LCD(LCD display)	A B	Temperature	These standalone data logger measures and stores more than 16,000 temperature readings over a -35 to +80°C / -31 to + 176°F range.
EL-USB-1-PRO	D	Temperature	This standalone data logger measures more than 32,000 readings over a -40 to +125°C (-40 to +257°F) range.
EL-USB-1-RCG	D	Temperature	This standalone data logger measures over 32,000 readings over a -20 to +60°C (-4 to +140°F) range.
EL-USB-2 EL-USB-2+ (higher accuracy) EL-USB-2-LCD(LCD display) EL-USB-2-LCD+ (LCD,higher accuracy)	A B	Temp/RH	These standalone data logger measures over 16,000 readings over a -35 to +80°C (-31 to +176°F) and 0 to 100% humidity (RH) range.
EL-USB-3	C	Voltage	This standalone data logger measures more than 32,000 readings over a 0 to 30V d.c. range at a resolution of 5mV d.c.
EL-USB-4	C	Current	This standalone data logger measures more than 32,000 readings over a 4-20mA d.c. measurement range.
EL-USB-5 EL-USB-5+ (higher accuracy)	C	Event, State & Count	These standalone data logger measures more Event counter data logger (32510 recordings).
EL-21CFR-TP-LCD EL-21CFR-TP-LCD+ (higher accuracy)	F	Thermistor	This 21CFR-compliant standalone data logger records and displays over 32,000 temperature readings from the supplied thermistor probe. The data logger features an LCD and push-button which allow the user to cycle through the most recent, highest and lowest stored readings.
EL-21CFR-1-LCD	B	Temperature	This 21CFR-compliant standalone data logger measures more than 16,000 readings over a -35 to +80°C (-31 to +176°F) range. At the touch of a button, use the on-board display to cycle between the current, minimum and maximum temperature logs seen during the session.
EL-21CFR-2-LCD EL-21CFR-2-LCD+ (higher accuracy)	B	Temp/RH	These 21CFR-compliant standalone data logger measures more than 16,000 readings over a -35 to +80°C (-31 to +176°F) and 0 to 100% relative humidity (RH) range. At the touch of a button, use the on-board display to cycle between the current, minimum and maximum logs seen during the session for both temperature and humidity.
EL-21CFR-TP-LCD-PROBE-G	F	Thermistor	This 21CFR-compliant standalone data logger records and displays over 32,000 temperature readings from the supplied high accuracy thermistor probe. The data logger features an LCD and push-button which allow the user to cycle through the most recent, highest and lowest stored readings.
EL-USB-TP-LCD EL-USB-TP-LCD+	F	Thermistor	These standalone data logger records and displays over 32,000 temperature readings from the supplied thermistor probe.
EL-USB-TC-LCD	F	Thermocouple	This standalone data logger measures over 32,000 readings from inter-changeable J, K or T type thermocouples.
EL-USB-CO	G	Carbon Monoxide	Carbon monoxide data logger 0 - 1000ppm CO.
EL-USB-CO300	G	Carbon Monoxide	Carbon monoxide data logger 0 - 300ppm CO.
EL-USB-ACT	E	Current	AC and DC millivolt data logger with current clamp input.
EL-OEM-3	J	Voltage	This low-cost, component-style data logger measures and stores up to 64,000 voltage readings over a 0 to 2.4V d.c. measurement range.
EL-USB-Lite	H	Temperature	This standalone data logger measures temperature every 30 minutes over a -10 to +50°C (+14 to +122°F) range.
EL-USB-RT	I	Temp/RH	When plugged into a PC's USB port, this sensor measures ambient temperature and relative humidity.
EL-USB-TC	A	Thermocouple	This standalone data logger measures over 32,000 readings from inter-changeable J, K or T type thermocouples.
EL-USB-TP-LCD-Probe-G	F	Thermistor	Lascar Electronics has paired its EL-USB-TP-LCD thermistor probe data logger with a glycol bottle thermistor probe for users who need a complete vaccination temperature monitoring system.

EL-GFX Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order



DATA LOGGERS



PART NUMBER	FUNCTION	DESCRIPTION
EL-GFX-2 EL-GFX-2+ (higher accuracy)	Temp /RH	These high accuracy USB data logger records over 250,000 temperature and relative humidity readings in one or more sessions for up to 4 months.
EL-GFX-1	Temperature	This USB data logger records over 250,000 temperature readings in one or more sessions for up to 6 months.
EL-GFX-TC	Thermocouple	This USB data logger records over 250,000 temperature readings in one or more sessions for up to 4 months.
EL-GFX-DTP-PROBE-G	Thermistor	This standalone data logger measures more than 32,000 readings over a 4-20mA d.c. measurement range.
EL-GFX-DTP EL-GFX-DTP+ (higher accuracy)	Thermistor	These USB data logger records over 250,000 temperature readings in one or more sessions for up to 4 months.
EL-GFX-DTC	Thermocouple	This USB data logger records over 250,000 temperature readings per channel in one or more sessions for up to 4 months. It is compatible with K, J and T-type thermocouples.

EL-WIFI Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order



PART NUMBER	FUNCTION	DESCRIPTION
EL-WIFI-TC EL-WIFI-21CFR-TC	Thermocouple	These WiFi-enabled data logger can remotely monitor an environment using an inter-changeable J, K or T type thermocouple.
EL-WIFI-TP EL-WIFI-TP+ (higher accuracy) EL-WIFI-21CFR-TP+ (higher accuracy)	Thermistor	These WiFi-enabled temperature data logging sensor can remotely monitor an environment over a -40 to 125°C (-40 to 257°F) measurement range.
EL-WIFI-TH EL-WIFI-TH+ (higher accuracy) EL-WIFI-21CFR-TH+ (higher accuracy)	Temp /RH	These WiFi-enabled temperature, humidity and dew point data logger can remotely monitor an environment over a -20 to +60°C (-4 to +140°F) and 0 to 100% RH measurement range.
EL-WIFI-T EL-WIFI-T+ (higher accuracy) EL-WIFI-21CFR-T+ (higher accuracy)	Temperature	These WiFi-enabled data logger can remotely monitor an environment over a -20 to +60°C (-4 to +140°F) measurement range.
EL-WIFI-DTP+ EL-WIFI-21CFR-DTP+	Thermistor	These WiFi-enabled dual channel data logger can remotely monitor an environment using two high accuracy thermistor probes.
EL-WIFI-DTC EL-WIFI-21CFR-DTC	Thermocouple	These WiFi-enabled dual channel data logger can remotely monitor an environment using two inter-changeable J, K or T type thermocouples.
EL-WIFI-TP+-PROBE-G EL-WIFI-21CFR-TP+-PROBE-G	Thermistor	The EL-WiFi-TP+-PROBE-G allows remote vaccine monitoring and data collection over a WiFi network, viewable from any internet enabled device including smartphone, tablet or PC.
EL-WIFI-DTP+-PROBE-G EL-WIFI-21CFR-DTP+-PROBE-G	Thermistor	The EL-WiFi-DTP+-PROBE-G allows remote vaccine monitoring and data collection over a WiFi network, viewable from any internet enabled device including smartphone, tablet or PC.
EL-WIFI-ALERT	Audible Visual Alert	The EL-WiFi-Alert is a standalone monitoring system for all sensor devices in the EasyLog WiFi range. The EL-WiFi-Alert will receive alarm messages from any EL-WiFi sensor device connected to the same wireless network.

Remote Monitoring Range



S - Normally Stock
L - Limited Stock
O - Ex Order



DATA LOGGERS



PART NUMBER	FUNCTION	DESCRIPTION
EL-NFC-1	Temperature	The EL-NFC-1 is a small waterproof temp data logger that transmits data to an NFC enabled Android™ device. -20 to +60°C (-4 to +140°F) range.
EL-SMS-2G-TP EL-SMS-2G-TP+ (higher accuracy)	Temperature	The battery operated EL-SMS-2G-TP is a temperature alert module communicating daily, weekly or monthly temperature summaries via SMS. -40 to +125°C (-40 to +257°F) range.
EL-BT-2 (Bluetooth connectivity)	Temp/RH	The EL-BT-2 data logger measures and stores up to 500,000 temperature and humidity readings. The LCD screen on the device indicates Bluetooth connection status as well as logger operation.
EL-SMS-2G-PROBE-G	Temperature	EL-CC-2-001 Chilled Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 8°C, Low 2°C Alarms - simply press the button to start logging.

Cold Chain Monitoring Range



S - Normally Stock
L - Limited Stock
O - Ex Order



PART NUMBER	FUNCTION	DESCRIPTION
EL-CC-1-001 (Chilled Goods)	Temperature	The EL-CC-1-001 Chilled Goods data logger comes pre-configured with sample High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-CC-1-002 (Frozen Goods)	Temperature	The EL-CC-1-002 Frozen Goods data logger comes pre-configured with sample High -16°C, Low -20°C Alarms - simply press the button to start logging.
EL-CC-1-003 (Ripening Goods)	Temperature	The EL-CC-1-003 Ripening Goods data logger comes pre-configured with sample High 14°C, Low 12°C Alarms - simply press the button to start logging.
EL-CC-2-001	Temp/RH	EL-CC-2-001 Chilled Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-CC-2-002	Temp/RH	EL-CC-2-002 Frozen Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High -16°C, Low -20°C Alarms - simply press the button to start logging.
EL-CC-2-003	Temp/RH	EL-CC-2-003 Ripening Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 14°C, Low 12°C Alarms - simply press the button to start logging.
EL-CC-2-004	Temp/RH	EL-CC-2-004 Ambient Pharmaceutical Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 25°C, Low 8°C Alarms - simply press the button to start logging.
EL-CC-2-005	Temp/RH	EL-CC-2-005 Blood Shipments data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 10°C, Low 1°C Alarms - simply press the button to start logging.
EL-CC-2-006	Temp/RH	EL-CC-2-006 Platelets Transportation data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 24°C, Low 20°C Alarms - simply press the button to start logging.
EL-PDF-1-001	Temperature	EL-PDF-1-001 Chilled Goods data loggers come pre-configured with High 8°C, Low 2°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-002	Temperature	EL-PDF-1-002 Frozen Goods data loggers come pre-configured with High -16°C, Low -20°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-003	Temperature	EL-PDF-1-003 Ripening Goods data loggers come pre-configured with High 14°C, Low 12°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-004	Temperature	EL-PDF-1-004 Ambient Pharma Goods data logger comes pre-configured with High 25°C, Low 8°C Alarms - simply press the start button to begin logging. No software required

EL-MOTE WiFi



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DATA LOGGERS



Smart Probes



PART NUMBER	FUNCTION	DESCRIPTION
EL-MOTE-T EL-MOTE-T+	Temperature	The EL-CC-1-001 Chilled Goods data logger comes pre-configured with sample High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-MOTE-TP EL-MOTE-TP+	Temperature	WiFi Temperature sensor with external thermistor probe Supplied with 1 probe -40°C to +125°C (-40°F to +257°F)
EL-MOTE-TH EL-MOTE-TH+	Temp /RH	WiFi Temperature and humidity sensor with external temp/RH probe Supplied with 1 probe -20°C to +60°C (-4°F to +140°F) & 0 to 100% RH range
EL-MOTE-DTP EL-MOTE-DTP+	Temperature	High accuracy dual channel WiFi Temperature sensor with x2 external thermistor probes.
EL-MOTE-PROBE-T EL-MOTE-PROBE-T+	Temperature	Short Temperature Probe
EL-MOTE-PROBE-2M-TH EL-MOTE-PROBE-2M-TH+	Temp /RH	Temperature and Humidity probe with 2 metre cable
EL-MOTE-PROBE-1M-25-TP EL-MOTE-PROBE-3M-25-TP EL-MOTE-PROBE-3M-75-TP+	Temperature	25mm or 75mm Temperature probe with 1 or 3 metre cable

Smart Thermo Box EP



Medical Products
Transportation Monitoring



Sensitive Products
Transportation Monitoring



Temperature Sensitive
Product Storage



Storage, preservation and transport of health and laboratory products sensitive to variations in temperature (drugs, vaccines, biological material, blood products and samples for clinical analysis).

- ✓ Long temperature conservation
- ✓ Replaceable battery with 2 years of battery life
- ✓ Temperature Limit Alarm
- ✓ Cloud Data for Auditing



Data Logger Thermometer

- ✓ Integrated display informs current minimum and maximum temperatures
- ✓ Continuous information recording in memory
- ✓ NFC wireless communication with smartphone or computer
- ✓ NOVUS Cloud data availability

TagTemp-STICK



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

DATA LOGGERS

TagTemp-Stick is an electronic temperature data logger, compact and robust, that dispenses use of cables for configuration and data collecting. Plugs directly into a USB interface of a computer with Windows® to communicate with the application LogChart II.

- Measure range: - Temperature: -20.0 °C to 70.0 °C.
- Accuracy: - ± 0.5 °C @ 25 °C; - ± 1 °C max. along the entire measured range.
- Measurement resolutions: Temperature: 0.1 °C.
- Memory capacity: 32.000 (32 k) logs.
- Measurement interval: - 5 seconds min, - 18 hours max.
- Power Supply: 3.0 V lithium battery (CR2032), built-in.



TagTemp-USB



S - Normally Stock
L - Limited Stock
O - Ex Order

TagTemp-USB is a small portable electronic temperature logger. Its internal sensor measures local environment temperature and logs such values in an electronic memory. Logged data, or ACQUISITIONS, can be later viewed and analyzed on a PC where they can be opened in tabular and graph forms.

- Measure Range: - Temperature: -20.0 °C to 70.0 °C.
- Accuracy: - ± 0.5 °C @ 25 °C; - ± 1 °C max. along the entire measured range.
- Measurement Resolutions: - Temperature: 0.1 °C.
- Memory capacity: 32.000 (32 k) logs.
- Measurement Interval: - 5 seconds min, - 18 hours max.
- Supply: 3.0 V lithium battery (CR2032), built-in



TagTemp-NFC



S - Normally Stock
L - Limited Stock
O - Ex Order

Compact with external temperature sensor, memory capacity of 4000 records. Wireless configuration and data acquisition through its NFC interface (Near Field Communication) by using android smartphones or tablets. Internal battery life of 400 days (not replaceable).

- Measure range: -40 °C to +70 °C
- Temperature Accuracy: ± 0.5 °C to 25 °C; ± 1.0 °C on all range
- Measurement resolutions: 0.1 °C
- Memory capacity: 4.020 logs
- Measurement interval: Programmable between 5 min and 2 h



LogBox-AA / LogBox-DA



S - Normally Stock
L - Limited Stock
O - Ex Order

LogBox-AA is an electronic data logger with two input analog channels.

LogBox-DA is an electronic data logger with two input channels, one analog and one digital.

Input data is stored in the logger internal memory, for later download to a PC for visualization and analysis in the form of tables or graphs. The data is easily exported to spreadsheets.

LogBox-DA

- Channel 1: NPN, PNP, Pulse or Dry Contact
- Max frequency: 4000Hz or 20Hz
- Maximum counting: 65.535 per period
- Channel 2: 0-20mA, 4-20mA, 0-50mV AND 0-10 Vdc
- Memory capacity: 32k or 64k readings
- Interval between readings: 1 second to 18 hours
- External battery switch time: 0 to 10s
- Power: Internal 3.6V Lithium battery (1/2AA)
- Working Temperature: from -40°C to 70°C
- Protection IP65 and IP67 models

LogBox-AA

- Input: 0-20mA, 0-50mV and 0-10Vdc
- J, K, T, N, R, S, B and Pt100 Ranges
- Memory capacity: 32k or 64k readings
- Interval between readings: 1 second to 18 hours
- External battery switch time: 0 to 10s
- Power: Internal 3.6V Lithium battery (1/2AA)
- Working Temperature: from -40°C to 70°C
- Protection IP65 and IP67 models



LogBox-AA



LogBox-DA

LogBox-RHT-LCD



S - Normally Stock
L - Limited Stock
O - Ex Order

LogBox-RHT-LCD is dual channel data loggers with built-in temperature and relative humidity sensors. They use a high quality industrial grade humidity sensor for accurate and reliable operation in applications such as transportation, food and goods storage, process auditing, pharmaceutical, HVAC and others.

- Temperature measurement
 - Range: -40 to 80 °C. Resolution: 0.1°C
 - Response time: up to 30 s in fairly still air
- Humidity measurement
 - RH Range: 0 to 100 %RH. Resolution: 0.1 %RH
 - Dew point range: -40° to 100 °C. Resolution 0.1 °C
 - Response time: 8 s in fairly still air, from 20 to 80 %RH
- Memory for 32,000 recordings in one channel or 16,000 recordings for each channel



DigiRail-VA



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DATA ACQUISITION

The DigiRail-VA is the latest addition to the successful and cost effective DigiRail family. Specifically designed for single phase AC power analysis applications, it is able to measure the most important AC signals and retransmit them in both analog and digital way.

It measures and calculates:

- Voltage: 0 to 300 Vac (True-RMS)
- Current: 0 to 5 Aac (True-RMS) - It does allow use of CTs for higher current applications
- Active Power
- Reactive power
- Apparent power
- Frequency: 45 to 65 Hz
- Power Factor: 0.00 to 1.00



DigiGate Profibus



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DATA ACQUISITION

DigiGate Profibus is the ideal equipment for interconnecting a Profibus DP network with a Modbus RTU network. It works as a gateway, operating as a master station in the Modbus network and as a slave station in the Profibus network. Thus, according to its previous configuration, DigiGate will read the data of the other devices (slaves) of the Modbus network and send the read values to the Profibus master. In the same way, it will write at the output of the Modbus slaves according to the Profibus master requests, providing a complete control of the Modbus network devices through the Profibus network.

- Protocol: Profibus DP
- Operates at the entire range of communication rates, from 9600 bps to 12 Mbps
- Addressing range: 0 to 125
- Automatic detection of supported baud rate
- "GSD" file included
- Termination and polarization resistors included (activated by jumper)
- Profibus connection: DB9 connector



DigiRail (Signal conditioning and digital transmitter)



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DATA ACQUISITION

The DigiRail line of smart transmitters with Modbus RTU communication interface provide a simple way for integrating analog or digital signals to supervisory systems.

- Analog inputs: programmable for thermocouples (J, K, T, E, N, R, S, B), Pt100, mV, V, mA
- Cold junction compensation for thermocouples and compensation for Pt100 3-wire cables
- Open loop detection for thermocouples, Pt100 and mV
- Sampling rate for 1 analog input: 10Hz for mV, V and mA. 5 Hz for t thermocouples and Pt100
- Analog input resolution: 17 bits
- Digital inputs: in voltage, 4 to 35 V to activate. Internally limited current in 5 mA
- Digital outputs: 8 A / 250 Vac SPDT relay, resistive load
- Power: 10 to 35 Vdc, 50 mA maximum current
- 2-wire RS485 communication with Modbus RTU protocol. Configurable address and baud rate (1,200 to 115,200bps)
- LED indicators for communication and status
- Key for resetting communication parameters to original factory default
- Accuracy (at 25 °C): Pt100, mV, V and mA: $\pm 0.15\%$ of full scale. Thermocouples: $\pm 0.25\%$ of full scale
- Temperature effect: 0.003 % of full scale/°C
- Cold junction compensation for thermocouples: 1 °C at 25 °C. $\pm 0.05\text{ °C} / \text{°C}$
- Isolation: 1000 Vac from inputs (analog or digital) and power or communication
- Windows based configurator software.



DATA ACQUISITION



FIELD LOGGER



USB-i485



SUPERVIEW MOBILE

SuperView Mobile is a SCADA (Supervisory Control and Data Acquisition) system designed for users who want to do monitoring, control and supervision of devices and equipment in industrial plants using Smartphone.

TxBLOCK-USB (Native USB port)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoPack (Isolated 4-20mA)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxMiniBlock (Programmable RTD)



S - Normally Stock
L - Limited Stock
O - Ex Order



TEMPERATURE TRANSMITTER

TxBLOCK is fully customer programmable head mount temperature transmitter. In the field configuration of input type and working range can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.

- Programmable input: Pt100 RTD and thermocouples type J, K, T, E, N, R, S, B.
- 2 wire loop powered 4-20mA output.
- Power supply: 10 to 35Vdc
- Linearized output and cold junction compensation for thermocouples.
- 2 or 3 wire Pt100 with linearization.
- Programmable working range
- Windows configurator or Palm (optional).
- Manual frontal zero (offset) adjustment.
- Accuracy: ±0.2% full scale for Pt100 and 0.3% max. Of FS for thermocouples.
- Temperature effect: 0.003% SPAN°C.
- Working temperature: -40 to +85°C.
- Programmable burnout upscale or downscale sensor failure protection.
- Dimensions: φ44mmx25mm(H)



TxRail (4-20mA) / (0-10VDC)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoRail (Isolated 4-20mA/0.5 output)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxRail-USB (USB Configurable)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxRail represents the utmost technology in DIN rail mount temperature transmitters. Input type, working range and output calibration can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.

- Programmable input: Pt100 RTD and thermocouples type J, K, T, E, N, R, S, B.
- 2 wire loop powered 4-20mA output.
- Optional 0 to 10Vdc or frequency output.
- Power supply: 10 to 35Vdc
- Linearized output and cold junction compensation for thermocouples.
- 2 or 3 wire Pt100 with linearization.
- Programmable working range
- Windows configurator or Palm (optional).
- Manual frontal zero (offset) adjustment.
- Accuracy: ±0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples.
- Temperature effect: 0.003% SPAN°C.
- Working temperature: -40 to +85°C.
- Programmable burnout upscale or downscale sensor failure protection.
- Dimensions: 78x70x19mm



ISOLATED



NON-ISOLATED

TxIsoPack-HART



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoRail-HART



S - Normally Stock
L - Limited Stock
O - Ex Order

The TxIsoPack-HART and TxIsoRail-HART are high performance temperature transmitters which convert RTDs, Thermocouples and voltage signals into a 4-20 mA current along with a superimposed HART protocol digital communication. Complete configuration, calibration and parameters monitoring can be fully achieved through the two-wire current loop by means of a convenient PC software and USB interface called TxConfig-HART. Sensor type input is fully programmable for most relevant RTDs, thermocouples, variable resistors, and voltage in mV. High isolation between input and output drastically improves stability and reliability with greater immunity to electromagnetic noises in extremely harsh industrial environments



TEMP WM-DM



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

TEMPERATURE TRANSMITTER

The TEMP-WM and TEMP-DM transmitter series incorporate the best high accuracy and great stability temperature sensors. They convert the measured values into linear 4 to 20 mA signals and optional 0 to 10 Vdc output can also be offered under request. The microprocessor based circuit enables full configuration of output range when used with the TxConfig PC interface and the Windows® based software. The TEMP-WM model is dedicated to wall mounted applications and the TEMP-DM version is suitable for duct and through-the-wall applications.

Power:

- 12 to 30 Vdc (model 4-20 mA)
- 18 to 30 Vdc (model 0-10 V)
- Cable input: PG7 cable gland

Output:

- Two-wire loop powered 4-20 mA or 20-4 mA

Voltage output:

- 0-10 Vdc or 10-0 Vdc (optional)

Output resolution:

- 0,006 mA (4-20 mA)
- 0,003 V (0-10 Vcc)
- Output load: (RL)
- Model 4-20 mA: $RL \text{ (max. in Ohms)} = (Vdc - 12) / 0.02$; where: Vdc=power voltage in Volts
- Model 0-10 Vdc: 10 kOhms minimum

Ingress Protection:

- Electronic module case-IP65
- Sensor probe-IP40
- Internal protection against reversed voltage wire polarity
- No electrical isolation between input, output and power circuits



USB i485



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

CONVERTERS

The USB-i485 module is a cost-effective way to convert RS485 or RS422 industrial buses to a USB interface. When connected to a PC USB port the USB-i485 module is automatically detected and is installed as a native COM port which is compatible with any existing serial communication application.

- Computer interface: USB V1.1 Plug and Play
- Operational system virtual serial port driver
- Supports Windows 7/Vista/XP/2008Server/2003Server/98/ME/2000/CE, MAC and Linux 2.4.20 or above. 64 bit options for latest operating systems.
- Field Interfaces: RS485 Half Duplex (dual buses), RS485 Full Duplex or RS422
- Jumper selected RS485 / Rs422
- Automatic flow control for RS485 Half Duplex
- 120 Ohms internal resistors termination enabled by jumpers
- Transmission rate: from 300 bps to 250 kbps
- Maximum RS485/RS422 cable length: 1200 m
- Maximum number of devices in the RS485 network
- Half Duplex: 2 x 32 devices
- Full Duplex: 32 devices
- Data transmission and reception LED indicators
- Consumption: <100 mA
- Isolation: 1500 Vdc from USB interface and the RS485/RS422 interface
- RS485/422 bus protection: ± 60 Vdc, 15 kV ESD
- USB connection: Mini-B connector
- A 1.5 m cable with plugs mini-B and A is provided with the module
- RS485/422 connector: screw terminal type accepting 1.5 mm² (16 AWG) wires
- ABS enclosure: 70 x 60 x 18 mm
- Operating environment: 0 to 70°C, 10 to 90% relative humidity, non-condensing



ISO485-1



S - Normally Stock
L - Limited Stock
O - Ex Order

RS485/232 isolated converter



GMT2-12B (12V AC/DC)

S - Normally Stock
L - Limited Stock
O - Ex Order

GREENLINE ECONO TIMER**GMT2-24B** (24V AC/DC)**GMT2-48B** (48V AC/DC)**GMT2-110A** (110V AC)**GMT2-220A** (220V AC)

- Dipswitch selectable functions
- Dipswitch selectable present times
- Better than 2% accuracy
- Small footprint DIN Rail mountable
- Low cost - High reliability
- LED-Relay state indication
- Change over relay contacts with ARC protection
- Supply Voltage: 220VAC
- Current consumption: <26mA
- Timing Accuracy: <2%
- Max continuous current: 10A
- Max switching Voltage: 30V DC, 250V AC
- Max switching current: 10A
- Max switching power :24W, 1.Kva

TC-PRO 2400

S - Normally Stock
L - Limited Stock
O - Ex Order

MULTI-FUNCTION DISPLAY UNIT

- 8-digit high resolution LCD(8mm high)
- Manual Reset& External Reset
- 23 functions(15 Timer functions, 6 Counter functions, Frequency Meter & Tachometer)
- Unique battery cover design for easy battery replacement
- Programable Reset button to prevent wrong-button push

- Model: C2400
- Size: 48×24×45.7(Unit:MM)
- Timer range: 0-99999999(the setting unit is S)
- Counter range: 0-99999999
- Response frequency: 2.5Hz~1300Hz
- RPM range: 150~78000(unit: Round per minute)
- Power Supply: CR2 850mAh (23 ± 3 °C constant current 10mA continuous discharge to the termination voltage 2.0V)
- Operation temperature: -10°C~55°C
- Screw type: M3
- Front panel waterproof protection: Ip66
- Rear panel waterproof protection: Ip20
- Vibration: IEC60068-2-6
- Static discharge: IEC1000-4-2(4KV Air/2KV contact)
- Electromagnetic field: IEC1000-4-3(field strength 10V/m, frequencyMHz~1GMHz)
- Shock pulse: IEC1000-4-4(1KV input)
- Weight about: 33g
- Opening size: 45×22(unit:MM)



APC040-24D (24VDC)

APC040-220A (220VAC)

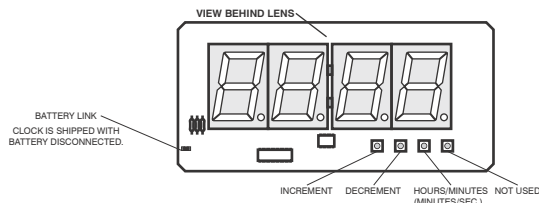


S - Normally Stock
L - Limited Stock
O - Ex Order



BIG DIGIT DISPLAYS

- 96x192mm Bezel
- 92x186mm Cutout
- 38mm LED Digits
- 12 or 24 hour format
- Hours and minutes switchable to minutes and seconds for special functions.
- Also available as elapsed time indicator.
- Good accuracy, mains version counts frequency and 24V dc version has high accuracy oscillator. (On special order 238V AC version can be supplied to operate on the oscillation if the mains frequency is not stable; however in South Africa the mains frequency is very accurate).
- Battery backup in case of mains failure (display blank but time is kept).
- Optional setting buttons (front of lens, behind lens(std) or via terminals on rear for setting purposes).



WD.....



S - Normally Stock
L - Limited Stock
O - Ex Order

WDCLK5100 (5-Digit Clock)

WDCLK6100 (6-Digit Clock)

WDCNT4100 (4-Digit Counter)

WDCNT5100 (5-Digit Counter)

WDCNT6100 (6-Digit Counter)

WDTIM4100 (4-Digit Timer)

WDTIM5100 (5-Digit Timer)

WDTIM6100 (6-Digit Timer)

This range of clocks/counters have been designed specifically for the industrial market for time and counter applications. These modules can be supplied with six digits up to 180mm high and with count/time backup on power failure. All inputs are isolated via onto-couplers giving the units flexibility with regards to the input voltage. All the units are fitted in a rugged powder coated aluminium enclosure with wall mounting brackets on the sides. All the displays are constructed from red high brightness seven segment LED displays giving excellent visibility over large viewing area. The battery back-up function keeps the last-count or the time and blanks the display until the main supply is restored and then continues to function normally. Re-adjusting the time or count therefore is not required after a power failure. The clocks have been upgraded with a high stability temperature compensated crystal oscillator to give an accuracy of 1 min per year from 0°C to 40°C. Top quality industrial display's using large bright 100 or 180mm high digits. These units are for indoor use only, and are ideal for situations requiring a large clear display. The digits can be read from approx. 60m away (depending on ambient light), and models are available to operate off a variety of input signals:- e.g. 4-20mA, 0-10V, B.C.D etc...

Voltages: 24VDC & 110V or 220VAC.

Clocks

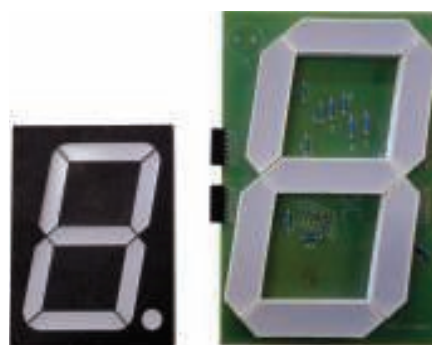
- Size variants (digit height 100mm or 180mm)
- Digit count HH:MM:SS (4 digits or 6 digits)
- Enclosure options (colour) (Matt black or beige)(include IP rated enclosure?)
- Bracket options (wall mount with swivel or panel mount)
- Setting options: Remote, Cabled remote, Side Panel, Data feed, iRig, b signal
- Master clock slave clock
- Optional extras (IP rated enclosures)
- Optional extras (flip flop time/date ,time/date/temp, date/temp, time/temp, Shift alarms)
- Temp signal conditioners (Novus Txblock)

Big digit Displays

- Inputs (4-20mA) Stop watch, up counter, down counter, event counter, frequency meter
- Size variants (digit height 100mm or 180mm)
- Digit count 2 , 4 , 6
- Enclosure options (colour) (Matt black or beige)(include IP • rated enclosure?)
- Bracket options (wall mount with swivel or panel mount)
- Setting options: Remote, Cabled remote, Side Panel, Data • feed
- Optional extras (485 relay)
- Vinyl lettering

Products currently available

- Elapsed time counters (Stop, Start & Count)
- Up/down counters
- 24 hour clocks



100 or 180mm High Digit Options

MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

WWW.MIMIC.CO.ZA

WWW.MIMIC.CO.ZA

ALARM ANNUNCIATORS



**ADDA APM4 MICRO CONTROLLER
ALARM ANNUNCIATOR SYSTEM**

VUE16 - ALARM WINDOWS



**LED BACKLIT INDICATOR SYSTEM FOR USE
WITH PLC, MULTI 16 PLUS OR AEM4**



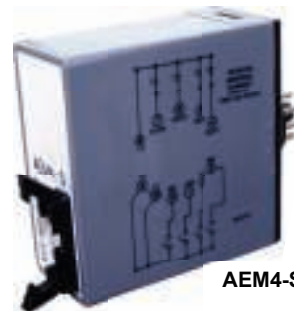
**MLT16
A FULL FUNCTION 16 WAY REMOTE
ANNUNCIATOR MODULE EXPANDABLE
UP TO 1024 WAYS.**



**ADDA 8G
LOW COST RELIABLE STANDARD
ALARM SEQUENCE ANNUNCIATOR**



AEM4-MASTER



AEM4-SLAVE

**AEM4
THE AEM4 MICRO CONTROLLER BASED ALARM ANNUNCIATOR
SYSTEM WAS DESIGNED FOR USE AS AN INDUSTRIAL
RAIL MOUNT ALARM SYSTEM.**

MIMIC COMPONENTS

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P.O. Box 38493, Booyens 2016, Johannesburg, South Africa

TEL: (011) 689-5700

FAX: (011) 493-8821

ADDView 16



S - Normally Stock
L - Limited Stock
O - Ex Order



DISPLAY SYSTEMS

VUE16-1N-24D 24VDC (Neg. comm.)

VUE16-1P-24D 24VDC (Neg. comm.)



- Jumper selectable colour per window (Red/Green/Amber)
- 34mA / window @ 24V DC (Amber) only 17mA for Red/Green
- Removable terminals
- User laser printable indicator window insert
- Fully solid state - life expectancy > 150 000Hours
- Standard DIN size Bezel (96x192) & Cutout size (90x183)
- Common negative & common positive versions

LED BACKLIT INDICATOR SYSTEM for use with PLC, MULTI 16 PLUS or AEM4

Tri-colour select (by input signals) & Modbus versions also available

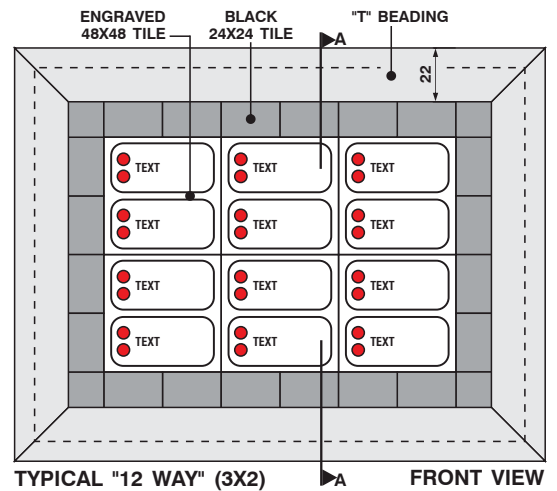
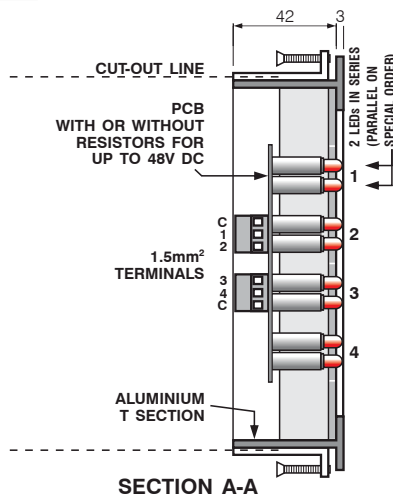
SYSTEM 248

Using our tile and grid system there are many different LED indicator systems available to suite your needs. We can fully rear illuminate the following tile sizes: 24x24, 24x48 & 48x48mm

Colours:
Red, Green, Yellow, Blue or White

There are also various options regarding the surround of this system.
Edge tile, Aluminium T-section or our new Alutec type T-section that matches our Alutec Enclosures.

See our "Mimic Crafts" catalogue for more information.



SPOT LED INDICATOR SYSTEM for use with PLC, MULTI 16 PLUS or AEM4

ADSYS96-24D 24VDC

ADSYS96-110D 110VDC

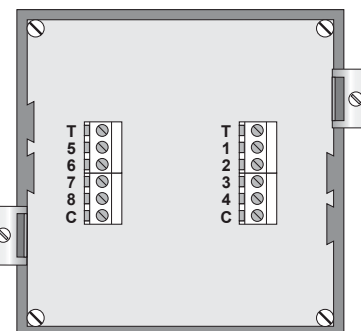
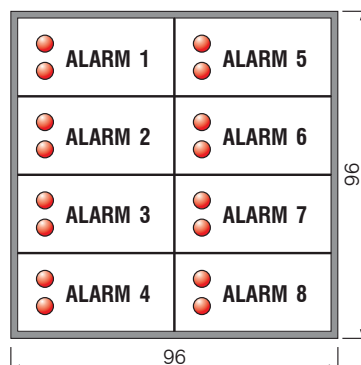
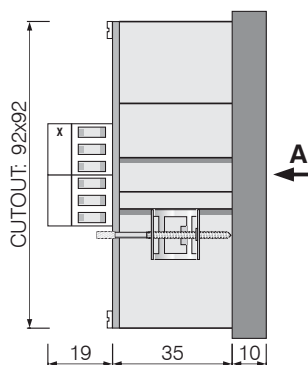
ADSYS96-220A 220VAC

SYSTEM 96

SPOT LED INDICATOR SYSTEM for use with PLC, MULTI 16 PLUS or AEM4

- All long life LED indications
- Number of indications from 8 to 16 per module and modules Can be increased to any number. (8 indications per module is standard)
- Industrial numbered terminals make for rapid wiring.
- Custom ribbon termination types available to PLC manufacturers so that complete indication systems can be plugged in 1 cable.

- Multiplexed version available (on special order). Each unit operates from an 8 way central unit which has 18 terminals. (8 Data lines, 8 strobe lines and 2 power lines) From this, 7 extension units of 8 indications each can be Driven, giving a total of 64 indications for 16PLC outputs.



MLT16 CPU UNIT



S - Normally Stock
L - Limited Stock
O - Ex Order

MEU16 Ext Unit

A FULL FUNCTION 16 WAY REMOTE ANNUNCIATOR MODULE EXPANDABLE UP TO 1024 WAYS.

MPI16 24VDC Interface PSU

MPS-110A 110VAC PSU

MPS-220A 220VAC PSU



The ADDA range of compact annunciators incorporate the latest microprocessor technology to provide a versatile and flexible alarm system suitable for a wide range of applications. The basic system consists of a Power Supply and one 16 way CPU alarm unit. This may be extended in modules of 16 ways up to a maximum group of 1024 ways, to form a very large synchronised alarm annunciator. Each 16 way CPU unit can be extended to 32 ways with a low cost Extension unit.

- Field selectable N/O - N/C input sense.
- Choice of 4 alarm sequences via dip switch.
- Choice of 4 input delay options via dip switch.
- Ring back option (indicates return to normal position).
- First out Fast Flash option (indicates first group of 32).
- Horn relay output for remote audible device.
- General alarm relay output for inhibit or control purposes.
- Acknowledge pushbutton input (doubles as Lamp Test).
- Reset pushbutton input.
- Flash synchronizing of adjacent units.
- Watchdog timer to monitor microprocessor.
- Microprocessor is galvanically isolated from inputs.
- RS 485 Connection is possible.
- Optional printer controller provides time stamped event record
- Opto-coupled inputs for full isolation of field wiring.

OPTIONS

- SEQUENCE 1 - Auto Reset
- SEQUENCE 2 - Key Reset
- SEQUENCE 3 - Motor Status
- SEQUENCE 4 - Green OK

DELAYED INPUT

- DELAY 1 - No delay(4mS)
- DELAY 2 - 1 Second
- DELAY 3 - 5 Seconds
- DELAY 4 - 10 Seconds

AEM4 Alarm Annunciator

The Aem4 micro controller based alarm annunciator system was designed for use as an industrial rail mount alarm system. This modular system comprises of 11Pin plug-in modules which wire directly to the field. The system comprises of a master unit which consists of the user pushbutton inputs and supply inputs as well as potential free contacts for the horn and trip functions. The slave units consist of 4way alarm modules with field inputs and display outputs. One master unit can drive up to 32 slave units, thus expanding the alarm unit to a 128 way(maximum) alarm.

Each input provides for normally open or normally closed alarms via a base mounted dip-switch. Each unit provides for normally on (inverse) led drive e.g. For use as Mains On alarms etc. This is an internal jumper setting. All slave modules have dip-switch settings for the following control options: First on fast flash / Manual or Auto reset / Ringback / and input fast or slow response time. The system is modular expandable - up to 32 slave units. All connections are via standard 11PIN relay bases. The units are interconnected via a standard 10-way ribbon system. The master unit has pushbutton facilities for Lamp Test / Accept / Reset inputs as well as potential free relay contacts for Horn and Trip outputs.

Power supply:

Supply voltage	24Vdc ±10%
Slave current consumption (leds)	80mA (max) / module
Slave current consumption (lamps)	20mA + (4* lamp current)/module
Master unit current consumption	90mA (max)

Alarm inputs:

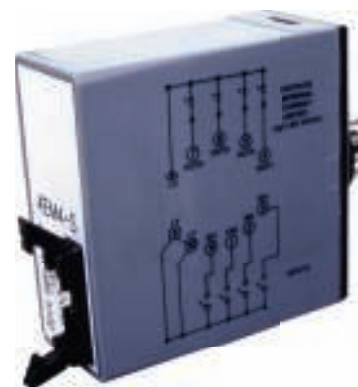
Input voltage	24Vdc ±30%
Input current	7mA @ 24V (max)

Alarm outputs:

Open collector type outputs.	
Max. output current (led mode)	17mA each
Max output current(lamp mode)	50mA each
Total max current	2A (all lamps+leds)

Relay outputs:

Horn relay	SPST
Trip output	SPDT
Contact rating	2A @ 250Vac



ARM 4P (ALARM ANNUNCIATOR CARD)

S - Normally Stock
L - Limited Stock
O - Ex Order

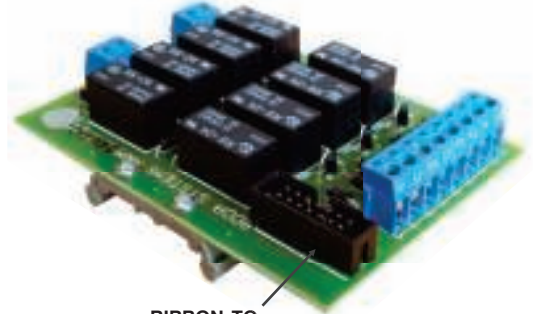
ALARM SYSTEMS

This is a 12 or 24V DC, Relay based, Full Function Alarm Annunciator Card which is ideal for smaller applications where alarm annunciation is required, e.g. on mimics or control panels.

Each **ARM 4P** Card drives 4 LEDs; 20 cards can be driven by one control card **ARM-CON** which contains all common circuits and a flasher. It is available from the factory in Automatic or Manual reset models. It can be used in an existing 24V DC system but it should be noted that the LEDs require positive common connection. The "Test Accept" button accepts alarms and also provides lamp test. A full system requires 12 or 24VDC, an ARM Card for every 4 ways, 1 control card, a buzzer, an accept button (and also a reset button in the case of a Manual Reset model).

The **System** operates on a normally open contact which closes on fault. On receipt of a closing contact the hooter sounds and the appropriate LED flashes. On acceptance, the hooter silences and the LED goes steady.

- In the 'Auto Reset' model the LED goes out when the fault clears.
- In the 'Manual Reset' model the LED stays on until the reset button is pressed.
- In either case, fleeting alarms are latched until accepted.
- Subsequent alarms are recognized, i.e. if there are alarms on the system, a new alarm will initiate a flashing LED and sound the hooter, without affecting existing alarms.
- If a panel mount self contained alarm annunciator is required see "ADDA 8", and for a large system see our "MULTI 16 PLUS" which can drive 1008 LEDs and incorporates advanced features.
- Also see our "MF 1", a motor flasher card which is ideal for motors that require steady run indication which flashes on trip and initiates a hooter.



RIBBON TO "ARM-CON" CONTROL CARD

SASB-12B-N 12VDC (Neg. comm.)

S - Normally Stock
L - Limited Stock
O - Ex Order

SASB-24B-N 24VDC (Neg. comm.)

S - Normally Stock
L - Limited Stock
O - Ex Order

SIMPLE ALARM CARD - 8 WAY

This is an 8 way Alarm Card with Lamp Test and subsequent Buzzer output. It has been designed primarily as a driver for remote active repeat Mimics for fire Panels and other similar alarm systems where there is a Latched output. It provides an economical method of indicating alarms on a mosaic panel or alarm window display. LED's do not flash and fleeting alarms are not latched (when the signal goes, the LED goes out).

It is much better than a simple diode steered alarm card in that it also indicates subsequent alarms by restarting the buzzer every time a new alarm arrives, even if existing alarms are still present.

It incorporates lamp test, LED ballast resistors and a horn driver. It is available in 12V and 24V DC versions.

APPLICATIONS:

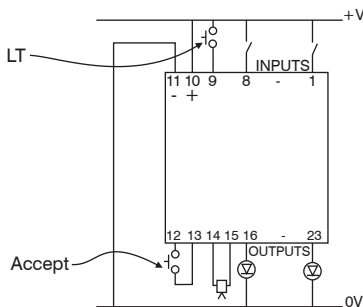
Fire alarm & other alarm annunciator repeat panels.

Process controlled applications where operators need to be made aware of new events but a full alarm annunciator is not required. This unit combined with a standard Lamp test card will provide a low cost solution for Motor run/ Trip indication. IE: Use the Standard Lamp test card for the steady state RUN indications and the SASB Alarm card for the Overload Latched Trip circuits.

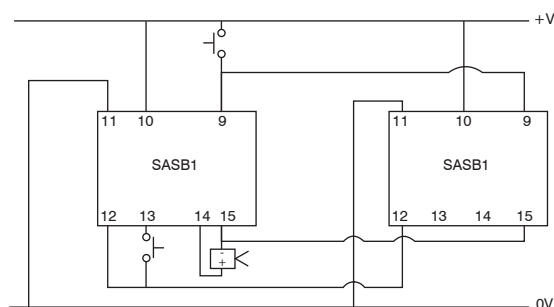
See; Door Monitoring Modules, AEM4 Modules.



CONNECTION & WIRING DIAGRAM



WIRING MULTIPLE SASB CARDS TO COMMON SWITCHES & BUZZER



ADDA APM4



S - Normally Stock
L - Limited Stock
O - Ex Order



4 WAY MODULAR PANEL MOUNT ALARM ANNUNCIATOR SYSTEM

The Adda APM4 micro controller based alarm annunciator system was designed for use as an industrial panel mount alarm system. This modular system comprises of 4 way panel mount alarm modules which wire directly to the field. The system comprises of a control unit which houses the pushbuttons, inputs and power supply inputs as well as potential free contacts for the horn and trip functions. The alarm units consist of 4way alarm modules with field inputs and integrated displays. One control unit can drive up to 16 slave units, thus expanding the alarm unit to a 64 way alarm. With custom ribbon cables this limit can be extended to above 150 alarms.

Dip-switch functions**Normally Open/normally closed:**

Normally open alarm is activated when a positive input is present.

Normally closed: alarm is activated when the positive input is not present.

First on fast flash: The first alarm received flashes faster than the alarms that follow.

This function works in groups of four for each alarm slave unit.

Auto/manual:

Auto: Momentary (fleeting) alarms, LEDs flash. Horn is silenced with Accept pushbuttons, lamps go to steady. The alarm auto resets when inputs return to normal state.

Manual: Momentary (fleeting) alarms, LEDs flash. Horn is silenced with Accept pushbutton, lamps go to steady. The alarms will only reset when the reset pushbutton is pressed and the inputs have returned to the normal state.

Ringback: The ring back option will sound the horn for one second each time an alarm returns to the normal state. ie; After accepting alarms in auto reset state or manually resetting alarms.

Input response time: This setting allows for each slave units input response time to be set.

This allows for fast response on required inputs or 1/2 second de-bounce on noisy input lines.



ALARM UNIT
(Bezel 48x144mm)
(Cutout 44x138mm)

CONTROL UNIT
(Bezel 48x144mm)
(Cutout 44x138mm)

Internal functions: (alarm units)

Led invert function: This function allows for the inversion of the lamp output for normally on situations. This allows for alarm inputs where the alarm must be activated when the led goes to the off state. E.g. Mains on lamps etc. The lamp will normally be on and when the input is activated the lamp will start flashing, upon acceptance of the alarm the lamp will be cleared. Once the alarm is returned to the normal state and the alarm unit reset the lamp will return to the normally on state. This function can be selected by removing the internal jumpers.

Control unit functions:

Horn: The horn output is activated when flashing alarm is active. This is silenced when the alarm is accepted. It is also active in the ringback option as described before.

Trip: The trip relay is active whenever an alarm is active. This output is only cleared when all alarms are in the normal state.

Main functions:

- Each input provides for normally open or normally closed alarms via Dip-switch.
- Each unit provides for normally on (inverse) led drive e.g. For use as Mains On alarms etc. (Jumper setting on rear of unit)
- All slave modules have dip-switch settings for the following control options: First on fast flash / Manual or Auto reset / ringback / and input fast or slow response time.
- The system is modular expandable - up to 64 slave units.
- The units are interconnected via a standard 10-way ribbon system.
- The master unit has pushbutton facilities for Lamp Test / Accept / Reset inputs as well as potential free relay contacts for Horn and Trip outputs.
- Optional opto-coupled inputs with additional external PSU.

MBPIC4-24B-R 24VAC/DC (4 DIGIT)



S - Normally Stock
L - Limited Stock
O - Ex Order



MODBUS INDICATORS

MBPIC6-24B-R 24VAC/DC (6 DIGIT)



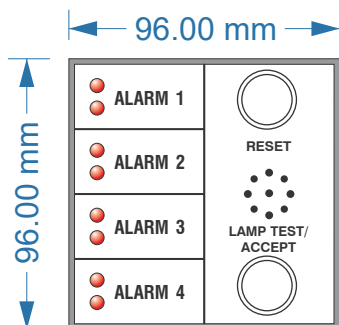
S - Normally Stock
L - Limited Stock
O - Ex Order

- Direct panel mounting or to Mastertech Mimic System
- Dimming facility for variable lighting conditions
- Simple hex switch addressing of instruments
- Up to 200 slave devices on one rs485 line
- PLC i/o saving only serial port required
- Serial and hardware lamp-test function
- Fast updating of large installations
- Loss of communication indication
- Simple PLC and Scada interfacing
- Synchronised flashing function
- Reliable Modbus based protocol
- Broadcast messaging support
- RS 485 data communication
- Low current consumption
- High brightness displays
- Selectable baud rates
- 48x96mm bezel
- 45x92mm cutout

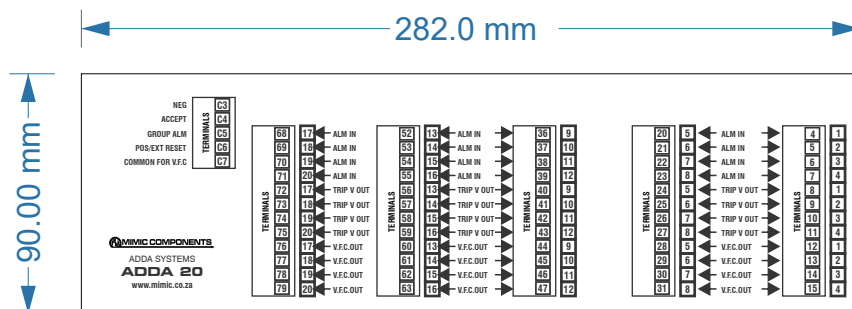


Developed by MIMIC COMPONENTS, this alarm annunciator has been designed specifically for use with High Voltage Panels which normally operate with a battery supplied control voltage of 110V DC. The main distinguishing feature is ADDA's extremely low current consumption, hence battery power is conserved and this in turn enables the unit to operate directly off 110V DC with very little heat. ADDA can be supplied in modular compact modules (96x96mm) either 4 ways or 8 ways, which can be added together to make up any reasonable quantity of alarm points. The standard unit is made for 110V DC, however 24V and 48V DC units are also available. The system operates on a normally open contact which closes on fault. On receipt of a closing contact, the hooter sounds and the appropriate LED flashes. On acceptance, the hooter silences and the LED goes steady. In the Auto-Reset model the LED goes out when the fault clears. In the Manual Reset model, the LED stays on until the Reset button is pressed. In either case, fleeting alarms are latched until accepted. Subsequent alarms are recognized, i.e. if there are alarms on the system, a new alarm will initiate a flashing LED and sound the hooter without affecting existing alarms. The aim of the ADDA is to plug the gap in the market between the imported flag relays (which are expensive), and the industrial alarm annunciators. It also provides a locally manufactured unit designed specifically for reliable and immune operation in H.T. switch gear panels. Using conventional Industrial Alarm Annunciators for 110V DC is not satisfactory as they usually operate on 24V DC and thus require an expensive and often unreliable DC to DC converter.

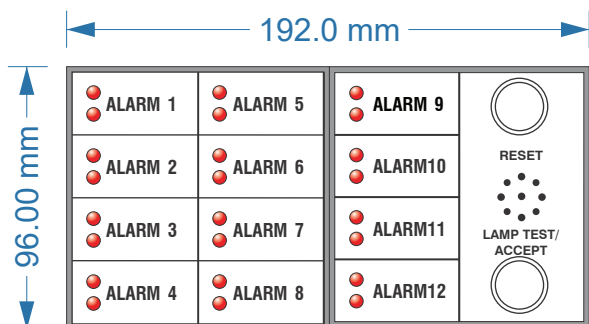
ADDA 4C



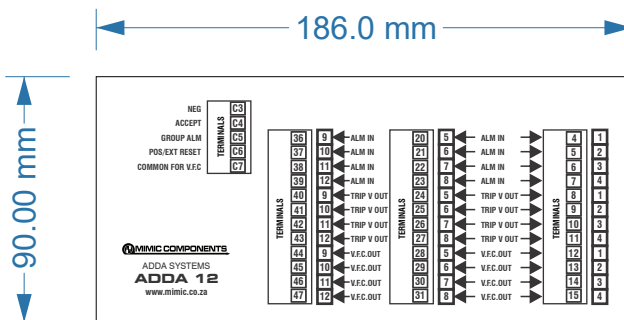
ADDA 20C LEGEND BACKPLATE



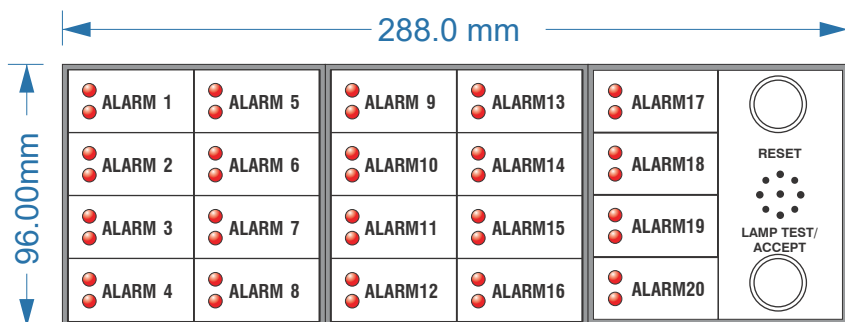
ADDA 12C



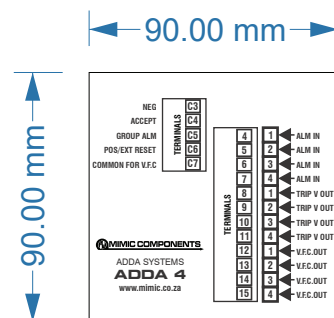
ADDA 12C LEGEND BACKPLATE



ADDA 20C



ADDA 4C LEGEND BACKPLATE



AVAILABLE IN MANUAL OR AUTO-RESET MODELS, & FOR OPERATION ON 12, 24, 32, 48, & 110V DC.

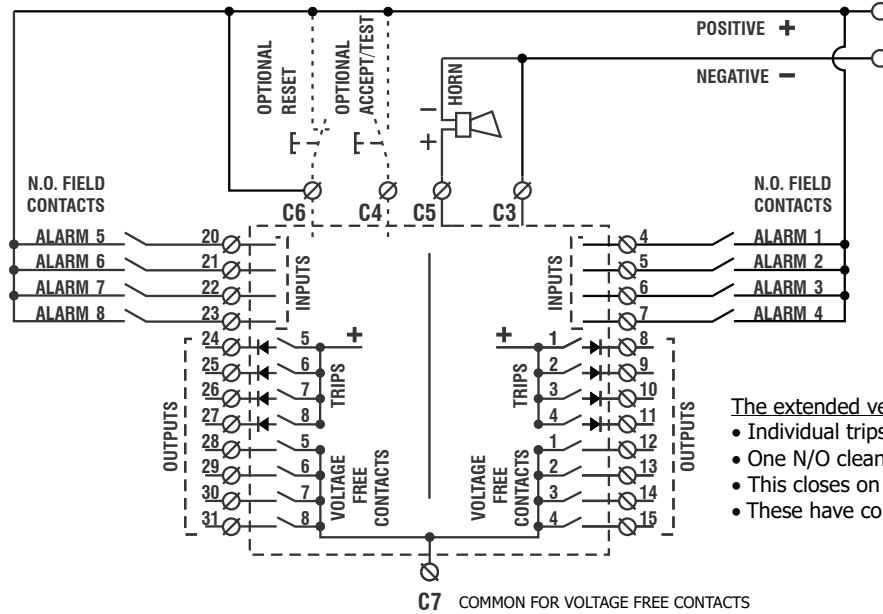
THIS UNIT IS ONLY SUITABLE FOR NORMALLY OPEN FIELD CONTACTS THAT CLOSE ON FAULT.

This page must be read in conjunction with page: 6.6

Max. current draw from terminals 3, 8 to 11, 16, 19, 24 to 27 is 250mA. **Group Alarm** is positive out at supply voltage 250mA, for Horn etc...

In the **Auto-Reset** model there is no Reset button & positive is connected directly to terminal 2.

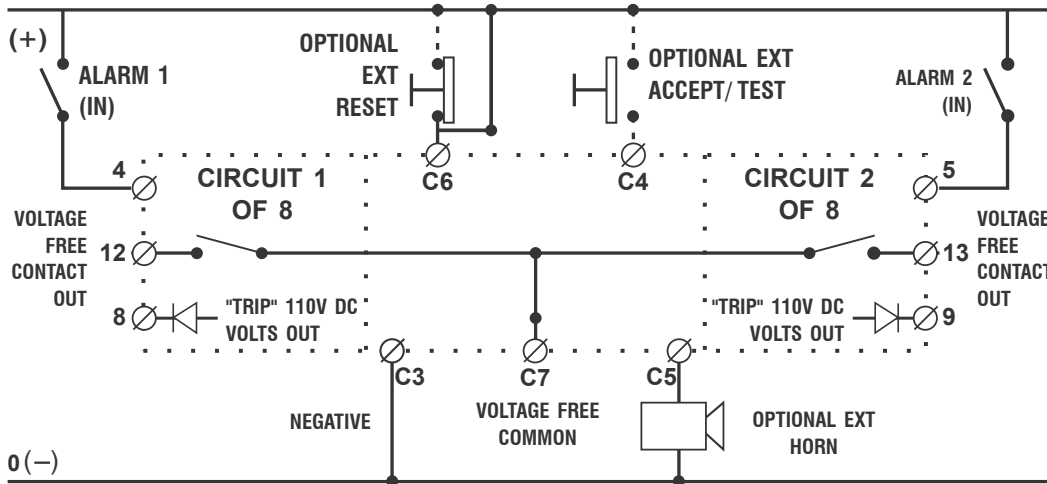
EXTENDED



The extended version offers:

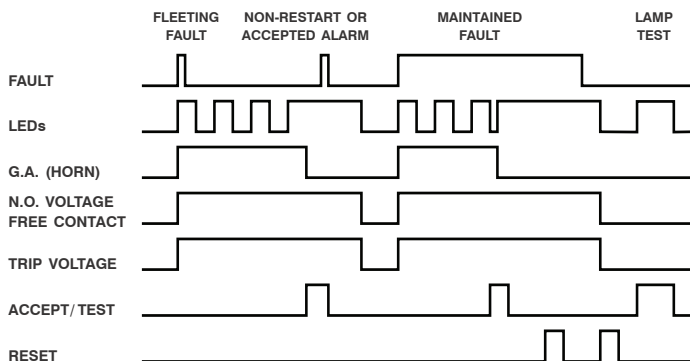
- Individual trips per alarm circuit.
- One N/O clean contact per alarm (12, 13, 14, 15, 28, 29, 30, 31).
- This closes on receipt of fault and opens when the fault is reset.
- These have common C7.

TYPICAL WIRING



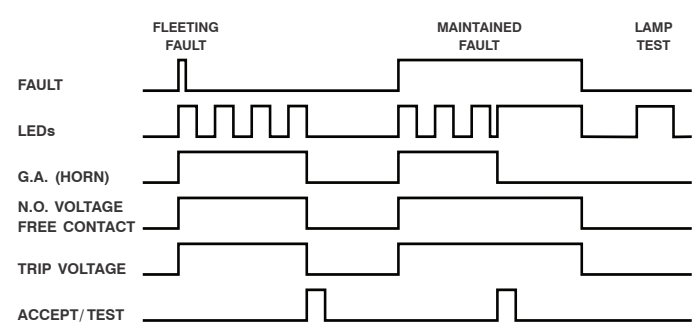
C4: Optional Accept
C6: Pos or Optional Reset

MANUAL RESET



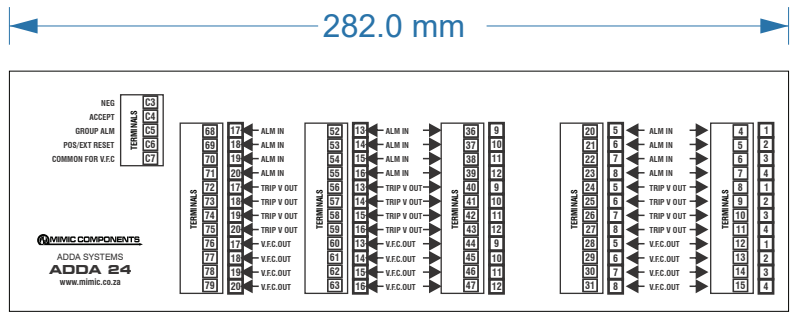
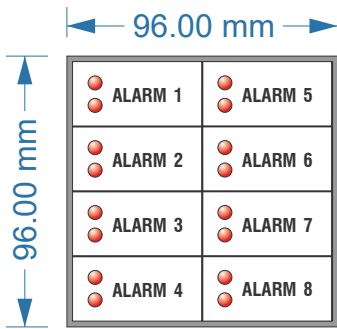
NOTE: MAXIMUM CURRENT DRAW FROM TRIP OUTPUTS IS 200mA. INDIVIDUAL TRIPS MAY BE GROUPED (WIRED OR 'ED). I.E. FOR DELAYED AND NON-DELAYED TRIPS THEY CAN BE GROUPED & THE DELAYED GROUP FED TO AN EXTERNAL TIME RELAY.

AUTOMATIC RESET

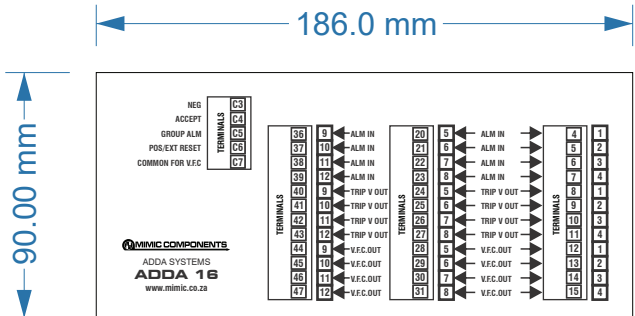
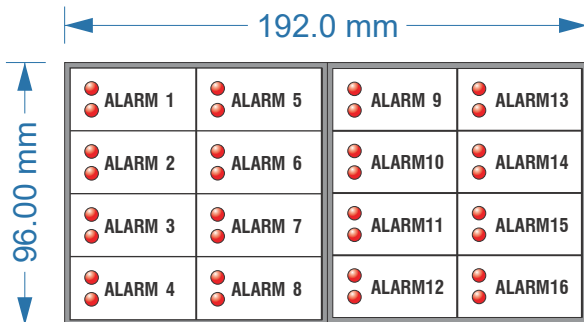


NOTE: MAXIMUM CURRENT DRAW FROM TRIP OUTPUTS IS 200mA. INDIVIDUAL TRIPS MAY BE GROUPED (WIRED OR 'ED). I.E. FOR DELAYED AND NON-DELAYED TRIPS THEY CAN BE GROUPED & THE DELAYED GROUP FED TO AN EXTERNAL TIME RELAY. RESET INPUT BECOMES POSITIVE (+) INPUT.

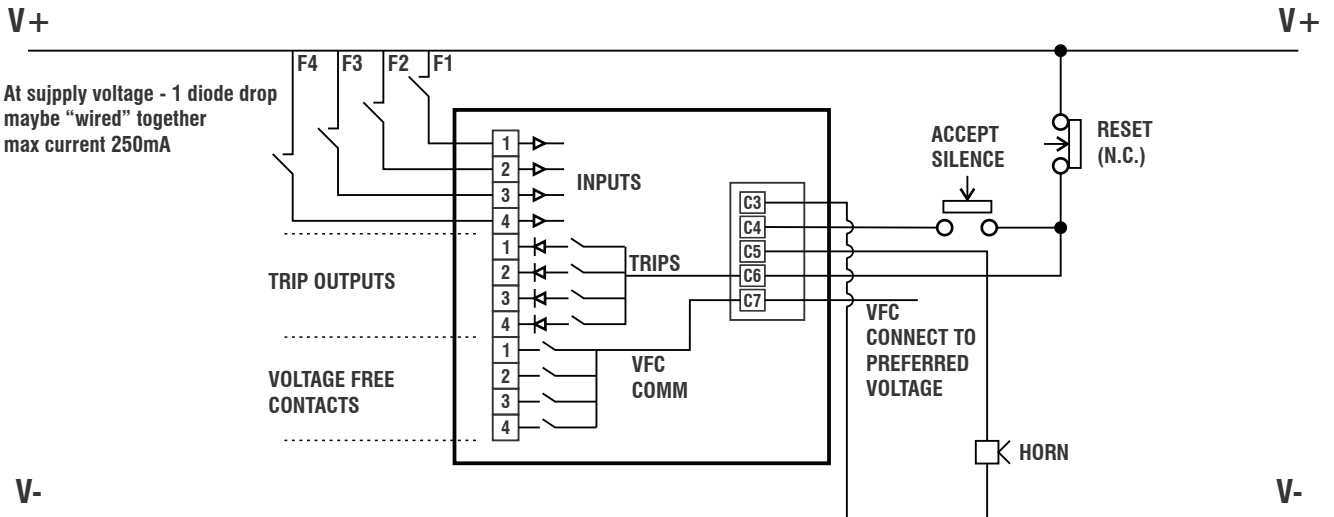
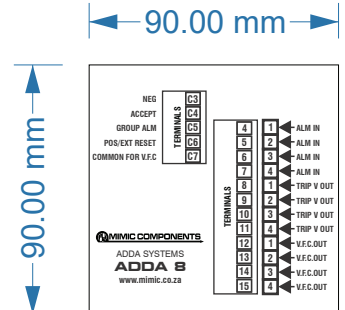
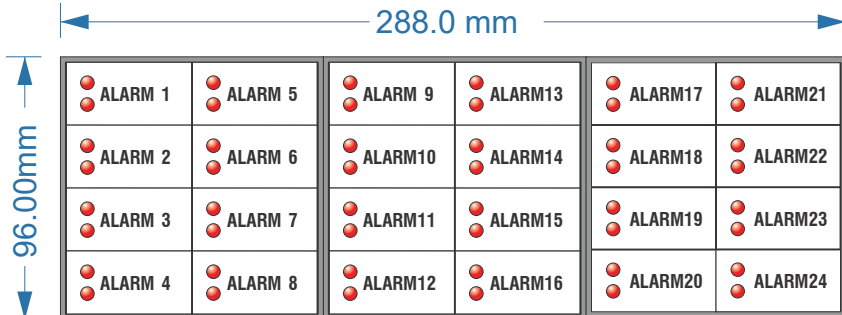
ADDA 8



ADDA 16



ADDA 24



AD8G-24D (24DC)

S - Normally Stock
L - Limited Stock
O - Ex Order

ADDA 8G - ALARM ANNUNCIATOR

AD8G-110A (110VAC)

AD8G-220A (220VAC)

The ADDA 8 G alarm annunciator was specifically designed as an addition to our standard range of alarm annunciators to provide a low cost reliable unit for use where potential free alarm relay contacts in the field are provided.

This alarm annunciator uses a standard alarm sequence (I.S.A standard alarm sequence A-14) i.e. on receipt of fault, a siren sounds and the appropriate LED flashes; on acceptance the siren stops and the Led goes to the steady state. When the fault is corrected the Led extinguishes. Subsequent faults start the same sequence and previous accepted alarms stay as is.

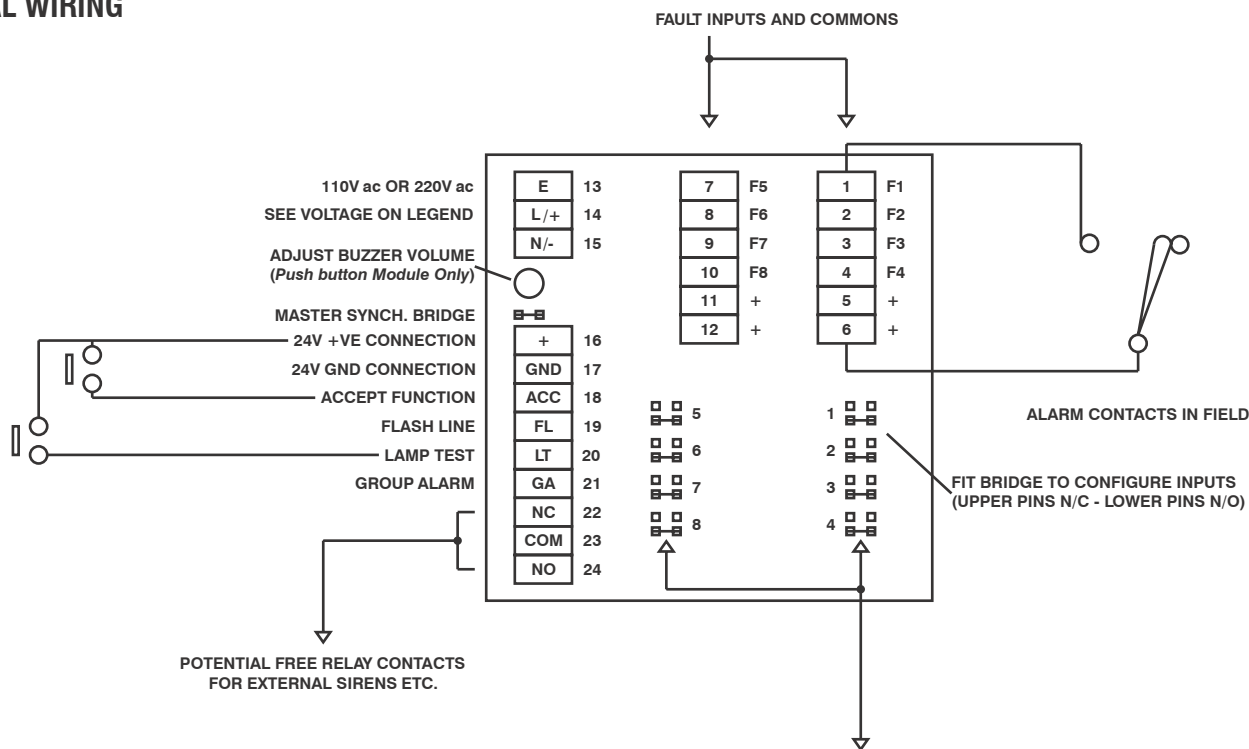
These alarm units all have internal power supplies and can quite simply be ADDED together to make up a larger alarm system. The basic alarm unit can be used in conjunction with external pushbuttons for "ACCEPT" and "LAMP TEST" as well as an external buzzer and will provide 8 alarm circuits each. The pushbutton module alarm provides 4 alarm circuits as well as internal buzzer with volume adjustment and two front panel pushbuttons for the "ACCEPT" and "LAMP TEST" functions.

- Internally protected inputs
- Jumper selectable for normally open or normally closed inputs.
- 24DC/110/220VAC internal power supplies
- Fully expandable
- Synchronized flash
- Uses standard engraving material for front panel legends
- Strong aluminium extruded enclosures
- Potential free relay output for sirens etc.
- Simple reliable and compact (only 96mmx96mm for 8 way).
- 92 x 92mm Cutout



NOTE: Engraving of front panel is free if details are supplied on order, otherwise engraving is R 9-75 per alarm window.

GENERAL WIRING



NOTE: ALARM 1 IS LEFT HAND TOP CORNER IS VIEWED FROM THE FRONT AS SHOWN IN PICTURE ABOVE

CONFIGURE INPUTS FOR REQUIRED STATE EG: NORMALLY OPEN OR NORMALLY CLOSED (shown set for normally open)



S - Normally Stock
L - Limited Stock
O - Ex Order



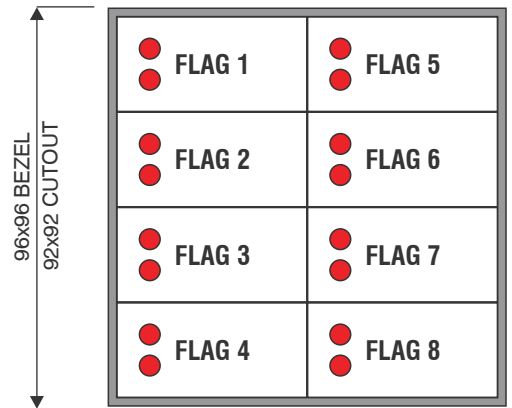
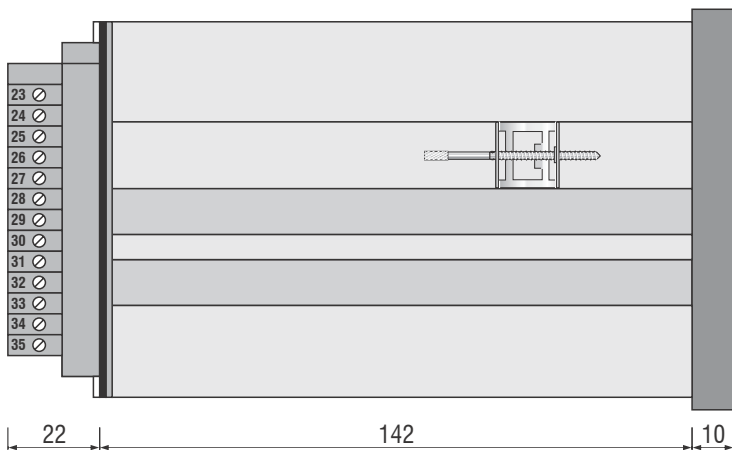
The ADDA 8-F is a purpose designed 110 /220 Vdc relay based flag unit for panel mounting purposes. The complete unit is housed in an extruded aluminium enclosure with removable front engraving plate for easy customization to the clients requirement. All terminations to the unit are via locking removable terminals for easy installation and maintenance. The 8 way flag unit consists of eight individual latching relay based circuits. Each circuit offers the following output functions:

1. Individual potential free contact (only the common of the contact is common to other circuits.)
2. Instantaneous avalanche diode protected trip output for each two grouped alarms (alarms 1,2 - 3,4 - 5,6 - 7,8 are grouped together)
3. Individual double switched trip reinforcing contact (for improved dc load breaking) for each alarm (the common of these contacts are also grouped in pairs as before.)
4. Two high brightness LED alarm indicators for each alarm on the front panel.

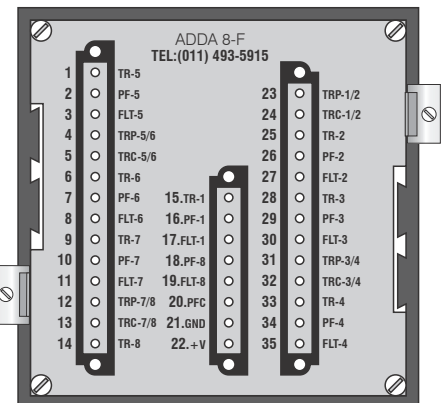
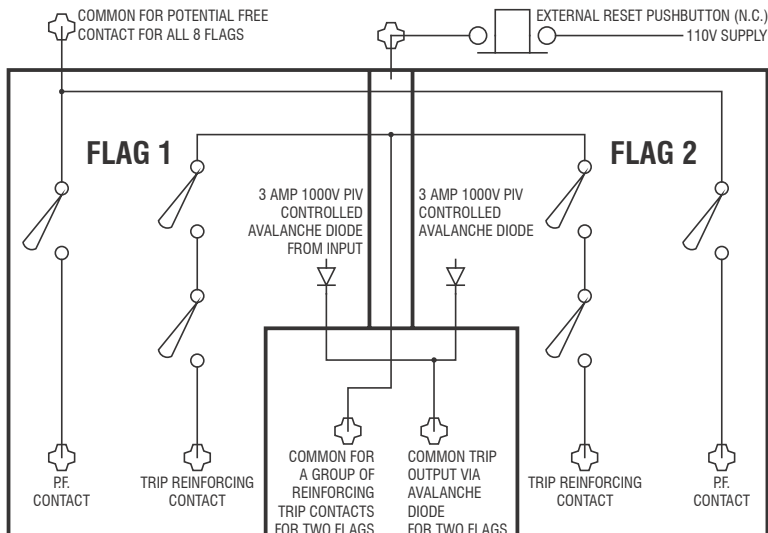
All these alarm output functions are available at the output terminals on the rear of the enclosure , as well as the input and power connections. All the plug-in terminals are of the screw-down locking type, to prevent the plugs from becoming unsocketed while in operation and thus invalidating the safety tripping circuits.

ADDA 8F - Electrical Operation

On application of the supply voltage all alarms will be in the off condition and all outputs will be de-activated. When an alarm input (+110/220 Vdc) is applied to one of the "fault in" inputs , that particular alarm will trip. This activates that relevant alarm's outputs and illuminates the two LED's on the front panel. The alarm will remain in this condition regardless of the input status , until the main power to the alarm unit is removed.(Reset) All the alarm inputs function in the same manner. (The alarm inputs are protected against false alarm triggering due to transients and inductive pickup by means of positive temperature coefficient resistors in parallel with the input relay coils.)



Note: Engraving of Front Panel is free if details are supplied on order, otherwise engraving will be charged for.



REAR

**ALL CONTACTS ARE 5 AMP RATING (AC NOMINAL) WITH DC1 LOAD BREAK AS FOLLOWS:
55V DC=700mA, 110V DC=260mA & 220V DC=100mA**

MIMIC COMPONENTS

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

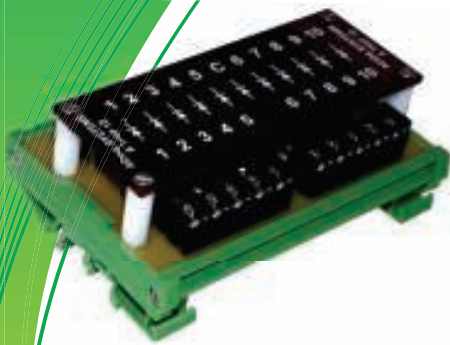
Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

WWW.MIMIC.CO.ZA

CARDS



A-TRIP (10 WAY)

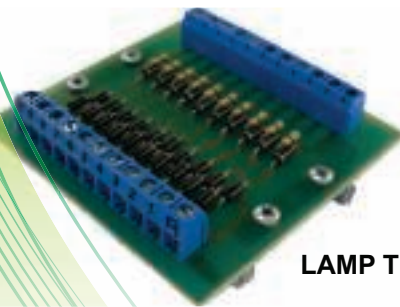
COMBINING MULTIPLE TRIP SIGNALS
TO A SINGLE OUTPUT TO DRIVE A TRIP RELAY.
ALSO AVAILABLE IN 3, 5 OR 8 WAY.



SASB....SIMPLE ALARM CARD 8 WAY



ARM4P-ALARM ANNUNCIATOR CARD



LT+ALARM FUNCTION



BOATED LT



GREENLINE ECONO TIMER
DIPSWITCH SELECTABLE FUNCTIONS
LED RELAY STATE INDICATION
LOW COST - HIGH RELIABILITY

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TC-PRO2400 (C2400)



S - Normally Stock
L - Limited Stock
O - Ex Order

TIMER / COUNTERS

- Timer / Counter
- 8-digit high resolution LCD(8mm high)
- Manual Reset & External Reset
- 23 functions(15 Timer functions,6 Counter functions, Frequency Meter &Tachometer)
- Unique battery cover design for easy battery replacement.
- Programable Reset button to prevent wrong-button push.
- Front Panel Protection: Ip66
- Rear Panel Protection: Ip20
- Power supply: Cr2 850mAh
- Operating Temp: -10°C+55°C
- Size: 48x24x45.7



TC-PRO48-Series

- Multi-fnction LCD digital Timer/Counter/Tachometer
- 6-digit LCD with back light display
- Ergonomic Key Design
- 5 key protection modes: KP-1KP-5
- NPN/PNP switchable DC-Voltage input
- Supports RS232/485/422 comms
- Supports MODBUS protocol and applied to connect HMI/ Text Panel/OPC/User defined Software
- 12VDC external power supply drives the external optical sensor; encoder, infrared switches.
- Highly visible display with backlit negative transmissive LCD
- Conform to the key design of ergonomics
- Five Key Protection Modes:KP-1~5 □
- EEPROM(overwirtes:100,000 times min.)
- 12VDC external supply power can drive the external optical sensors, such as encoder, infrared switches etc.
- Applied to connect PC/HMI
- Weight: approx. 168



Ts4848 Digital Time Switch

- Provides basic mode (BSC) and advanced mode (ADV) for selection;
- Provides two independent output circuits;20 banks (groups) of operation times can be set for each circuit;
- Provides cyclic operation (CYCLIC) and pulse operation (PULSE);
- The operation time for each group (bank) can be set with random operation date;
- Temporary holiday settings function makes output ON/OFF conveniently on holidays;
- Provides summer time (DST) adjustment;
- Allows manual operation to control output ON/OFF directly;
- Provides Override and automatic return function
- Provides key protection function;
- The data information can be reserved for more than five years in case of power failure;
- Communication model supports modbus ASCII/RTU
- Provide PC software for setting conveniently.



FAB-2 Series PLC



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PLC's

- CE approval
- 2 channel with RS485
- Supports Array text Panel
- Supports Modbus RTU protocol
- Power Indicator
- Improve RTC accuracy
- Improve PLC running speed
- Free programming Quick II software
- Removable panel with LCD
- FB programming and strong program storage capacity



SR Series PLC

- UL/CE approval
- Wireless remote control
- Supports Array text Panel
- Removable panel; cost saving
- Power failure protection(customised function)
- More compact, more powerful, flexible connection/ EHC
- Features 1k high-speed input port(customised function)
- 30 function blocks, the total amount of function blocks 128
- Telephone remote control, automatic dialing alarm and voice broadcasting.
- I/O can be extended freely, the optimum configurations 50DI, 30DO,8AI.
- 64 Human-Machine Interfaces, and the parameters can be displayed and modified directly.
- Power: AC110V-240V
- Degree of Protection: IP20



SR-HMI (REMOVABLE LCD DISPLAY)
32 Virtual Keys
64 Human-Machine Interfaces
Time, Input & Output State, Counter, Alarming Interfaces etc

SR-22MRAC (22 I/O PLC UNIT)
14 Point AC or DC digital Inputs
8 point relay outputs
8 point transistor outputs (NPN / PNP)

SR-12MRAC (12 I/O PLC UNIT)
8 Point AC or DC digital Inputs
4 point relay outputs
4 point transistor outputs (NPN / PNP)

SH300 Text Display

- Display screen 4.3"STN - LCD Display screen
- Contrast Adjustable resistor
- Memory 110KB Flash ROM
- Communication Port PC Rs232 & PLC RS485/422 & PLC RS232
- Function button 14 freely configurable keys
- Allowable power disruption ≤20ms
- Installation hole Dimension 165×85mm
- Weight 260g
- Rated voltage 12 ~ 24VDC±10%<300mA
- Withstanding voltage test 500V AC 1minute(between signal and GND)
- Insulation resistance Over 10M ohm @ DC500V (between signal and GND)
- Operation ambient temperature -10°C ~ 60°C
- Operation ambient humidity 20~90% (no condensation)
- Storage temperature -20°C ~ 70°C
- Degree of protection IP65 (the front panel)



P24AC1 (24VAC to DC CONVERTER)

S - Normally Stock
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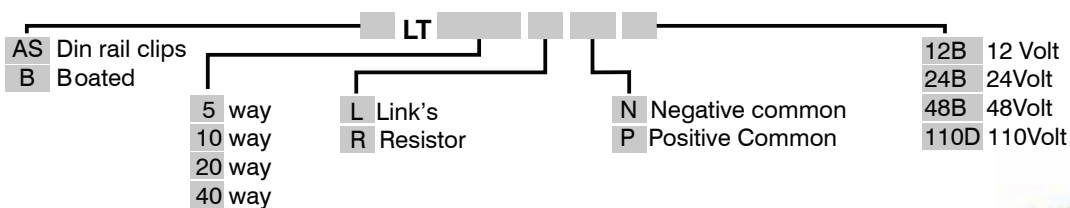
AC/DC CONVERTER

The P24AC1 is a rail mount switch-mode regulator for use on small 24Vdc systems. The regulator accepts an AC or DC voltage input and supplies a current limited, regulated 24Vdc at a nominal 500mA. The regulator has an LED output indicator to indicate the presence of an output voltage. The complete unit is a open - frame design in a rail mountable boat.

- Input Voltage Range: 24-29 Vac or 28-40 Vdc
- Output Voltage: 24Vdc \pm 5%
- Output current (limited): 500mA @ 24Vdc
- Output Ripple: <80mV (ptp)



LAMP TEST CARD



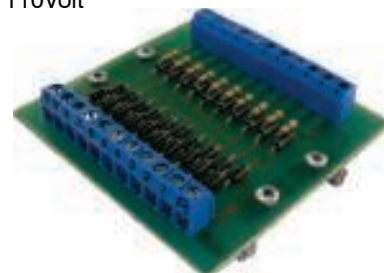
Mimics Lamp Test Cards are available in either a bare board economy format, normally with wire protected terminals or mounted in a PCB boat normally with higher capacity raising clamps terminals. The part no's with resistors are designed to operate a single LED at 17mA. If your pilot lights operate at supply voltage please order a LINK type card.

Link used on our boards

This is a zero ohm resistor marked with a single black band = 0W



- 24V DC is standard
- Raising Clamp Terminals or Boated options
- DIN Rail mountable
- 5 way
- 10 way
- 20 way
- 40 way
- Voltages 12, 24, 48, 110 & 220VDC



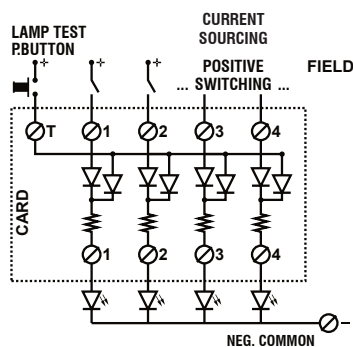
LT+ALARM FUNCTION



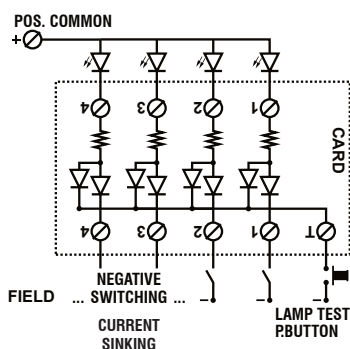
BOATED LT

Typical diagrams for LEDs

(FOR LAMPS THERE ARE NO RESISTORS)

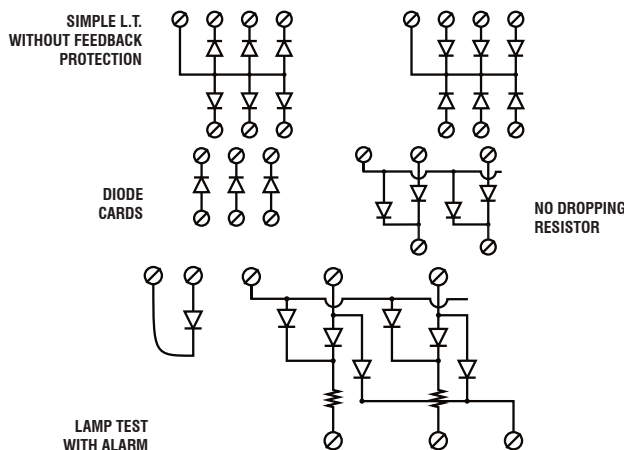


TYPE A
NEG. COMMON - POS. SWITCHING



TYPE B
POS. COMMON - NEG. SWITCHING

Other options:-



ATRIP-3 (3 way)



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TRIP STEERING DIODE

ATRIP-5 (5 way)

ATRIP-8 (8 way)

ATRIP-10 (10 way)

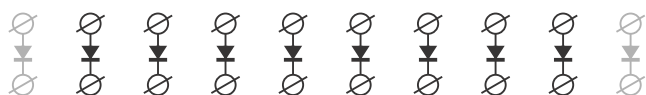
Pictured is a 10 way diode board that can be supplied in 2 formats, for mounting on DIN Rail. Normally used for combining multiple TRIP signals to a single output to drive a Trip Relay.

- 3, 5, 8, 10 Way Board Options
- 25A Diodes
- 1600V VRRM
- 0.34 kA LFMS (10msec)
- I^2t - 580 A²s
- DIN Rail mounting

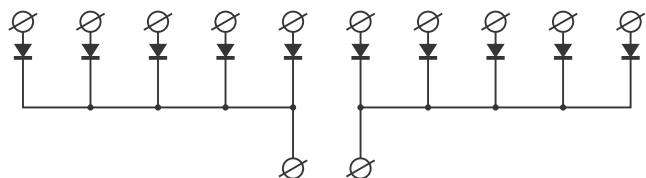


Symbol	Ratings	Unit
V_{RRM}	800-1600	V
I_{RRM}	6	mA
$I_{F(AV)} (^{\circ}C)$	25 (120)	A
I_{FRMS}	39	A
$I_{FSM} (10ms)$	0.34	kA
I^2t	0.58	A ² s 10 ³
V_{FM} / I_{FM}	1.35 / 78	V / A
$V_{T(TO)}$	0.90	V
PRSM 100mks	2.5	kW
T_{jmax}	160	^o C
$R_{th(j-c)}$	1.100	^o C / W
M_d	0.9-1.1	Nm
w	0.006	kg

a). As 5,8 or 10 individual diodes.



b). As two groups of 5 diodes with anodes connected to a common.



NCH8-20



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HOUSEHOLD CONTACTOR

NCH8-40/20

NCH8-20 household AC contactor is mainly applicable to a power system of AC 50Hz or 60Hz, rated working voltage up to 230V, and in a line of application class AC-7a with rated working voltage up to 230V and rated working current up to 20A. It is used to remotely close and/or switch off the line. The product is widely used in dwelling houses, hotels and so on. Its main performance indices is in conformity with that specified in code IEC1095.

- Electrical ratings: up to 20A, 25A, 40A, 63A, 230V, AC50/60Hz.
- Utilization category: AC-1, AC-7a, AC-7b
- Standard: IEC / En61095
- Compact design and modularization design
- Insulation material with excellent performances has been adopted to enhance the operation security to a great extent
- Elegant appearance
- Mechanical lifetime: Not less than 1×10^5 times
- Electrical lifetime: Not less than 3×10^4 times



SP Series

POWER SUPPLY UPS FUNCTION

Compact design, small size and light weight. High efficiency and good reliability. Internal EMI filter. Power Output LED Indicator. Remote Control Function.

Input Voltage: 100-240VAC, 50/60Hz

Output Voltage: 24V

Rated Power: 36W

Output Current: 1.5A

Cost effective power supplies with

- UPS function
- Adjustable current limit protection
- "Soft start".
- Wide input voltage range (85-264VAC, 120-370VDC)
- Output voltage adjustable (-5%~+10% by potentiometer V).

SP-05A5 - 5VDC 6amp

SP-12AS - 12VDC 3amp

SP-24AS - 24VDC 1.5amp

Dimensions: 71x106x65mm

SP-05AL - 5VDC 10amp

SP-12AL - 12VDC 6amp

SP-24AL - 24VDC 3amp

Dimension: 126x106x65mm

BZ12V72POR - 12V 7.2AH Battery (for UPS function)



PCB TERMINAL BLOCKS

While industrial controls become more and more complex and important, the interface modules are utilized as the improved solution to replace traditional single wiring usage. The diverse interface units are taken to convert signal between flat ribbon cable connector with screw type terminal, D-Subminiature connector with screw type terminal, and the relay with screw type terminal.

By applying wire technology and compact design, the interface units provide advantages on integration, space saving, flexibility, and costing efficiency. The interface modules, which are widely adapted, are considered the simple, convenient, economic and tech-oriented alternative for all common PLC's.

We stock a wide range of terminals.

Please contact us to discuss your requirements.



 **MIMIC COMPONENTS**

We believe in bringing the electrical and electronics industry leading edge products that will perform and last, Everything Mimic Components does challenges the industry status quo.

We believe in pushing the boundaries and making products that are future proof.

Mimic Components has a passion for the electrical and the electronics sector

With decades of experience we have developed great skills in design, development and production of PC boards, automation solutions, control panels, control desks and data logging.

We pride ourselves in the products we offer to our customers. Great care is taken to find the right products at the right prices.

Our products are put through rigorous testing before being offered to market, We make sure to offer clients varying levels of products from economy versions all the way to high end products.

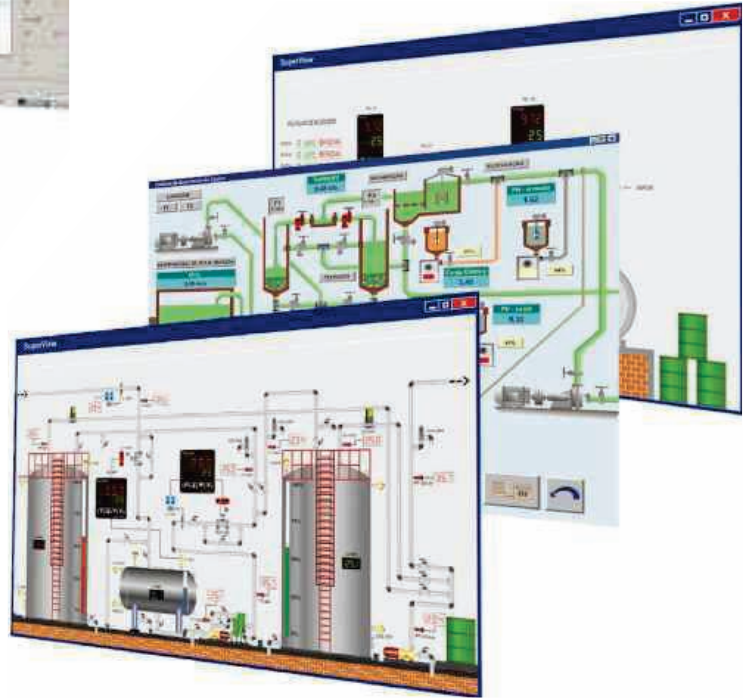
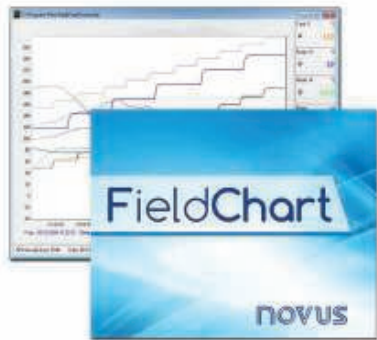
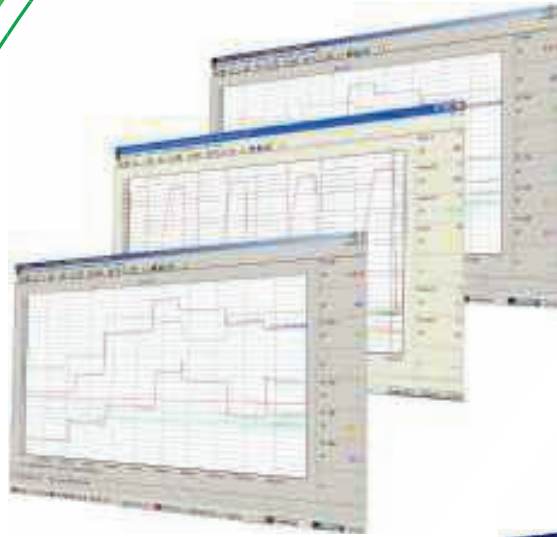
Mimic Components products are everywhere, almost any product out there has been close to , monitored by or manufactured by a product of Mimic Components.

We have airport lighting solutions, food monitoring, logistics logging and monitoring, temperature control and monitoring , Power distribution control and monitoring to name a few.

Now you have a brief outline of what we do and are capable of talk to us about how we can help you.

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SOFTWARE



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CAD Software



WSCAD is an advanced computer aided design package for electronic and electrical design. This versatile electrical engineering cad package is ideal for all types of electrical engineering design, planning and project control involving electronics, electrical and commercial electric service design. WSCAD is modular structure, there fore you are able to start with basic - version and, at a later time, expand it to a higher-version (Compact or Professional) with more feature. Drawings that have been made with lower version are fully compatible with higher versions.

The three software modules of WSCAD are built upon each other containing a tried and tested range of functions.

- The **Basic version** is particularly suitable for commissioning, when the planning itself was already completed and no more major alterations are anticipated. It is equally well suited to the creation of smaller and less extensive projects.
- The **Compact version** is often found in the maintenance department. The strength of the Compact version is in the adaptable circuit design, such as when an installation or machine already exists and needs modifications. In addition, this version is especially suitable for the creation of diagrams for small to medium-sized projects. Various automatic functions are available, such as cross-referencing, terminal charts, numbering and contact mirroring.
- The **Professional version** is used in the planning, development and documentation of new projects. Here the user has at his disposal an extensive range of powerful online and monitoring functions which are indispensable in the creation of new projects. Errors are eliminated from the beginning and productivity is increased.

It does not matter with which version you will start with. There are no restrictions on upgrading from lower module to a higher one.

Single-user licences or network licenses with common access to project data, database and libraries, or combinations of these, offer a system-oriented method of working.

- Floor plan editor.
- Complete project management.
- Export & import DXF & DWG files.
- Clients can use a WSCAD viewer to view drawings(free).
- Customizable drawing frames.
- Material list
- Project Data
- Summary
- Revision History
- Cable List
- Wiring Chart
- Installation Plan
- Basic Drawing
- Reference List
- Cable Chart
- Connector Chart
- Terminal Chart



PCB CAD Software

**Which Ranger Do I Need?**

If you decide to start off with Ranger2 or Ranger2 XL, you can always upgrade to the next Ranger for the difference in price between the two (plus post and packing). All the Ranger designs are upwards compatible.

- **How much money do you have to spend?**

When comparing Ranger's, you get what you pay for, so the more expensive products have more features - but you may not need them! (The entry level is Ranger2, then Ranger2 XL. Ranger XL is our top of the range product.)

- **Do you require split power plane support?**

If so, you would need to consider Ranger XL. (Ranger2 and Ranger2 XL support individual power planes only.)

- **Do your designs use surface mounted parts occasionally or frequently?**

All the Ranger products are designed to handle surface mounted parts, however we would only recommend Ranger2 where smd's are used occasionally. If your designs frequently contain smd's then Ranger2 XL and Ranger XL should be considered.

- **How many rectangular pads do you use per design?**

Ranger2 has a limitation of upto 16 different rectangular pads and 16 square pads per design. This can be an issue if a variety of smd's are in use on each design. Ranger2 XL has a limit of 32 pads of each shape per design whilst Ranger XL doesn't have these limits.

- **Do you require an auto-router?**

All the Ranger products have our own rip-up and retry auto-router and a .dsn output for input to the Electra and Specetra auto-routers. Ranger2 XL and Ranger XL have an interface to the new Electra auto-router. All products have an interface to the Specetra auto-router.

- **How many artwork layers do you require?**

The number of board layers doesn't tend to be an issue, but Ranger2 and Ranger2 XL have a maximum of 16 layers and Ranger XL has 64 layers.

- **Do you require circuit schematic diagrams?**

Ranger2 XL and Ranger XL have an improved schematic editor with many additional features over and above the editor supplied with Ranger2.

- **How many different power rails do your designs contain?**

Ranger2 has a limit of up to 8 different power rails per design, Ranger2 XL has 16 and Ranger XL has a limit of 256. Your answers should give you an idea which Ranger will suit your designs. Ranger2 XL and Ranger XL also have reduced versions (limited parts/pins, etc.) that are less expensive.



SuperView - Process Supervision Software



SuperView is a Supervisory Control and Data Acquisition software (SCADA) that brings to the user a visual development model to create applications. Besides communication with Modbus RTU and Modbus TCP devices, also is possible to use SuperView stations operating in Client or Server modes allowing distributed supervision of a process or system. The user can use different kinds of resources that simplify the configuration, bringing flexibility to take decisions when developing the synoptic. Customized access policies for users, mathematical formulas, task scheduling, logs for user actions and encrypted historic are some available resources. This system complies with technical requirements of FDA 21 CFR Part 11 and ANVISA.

- Visual development without the use of "scripts"
- Access Policies customized for each user
- Encrypted Historic with data tampering detection
- Export function to the formats XLS, PDF, RTF, XML, HTML, DBF, TXT, CSV
- Encrypted event log for user and application
- Visual objects available to create supervision forms
- Alarms supervision with visual, sound and e-mail notifications
- Report generator
- Mathematical formulas
- Task scheduler triggered by conditional or date/time
- Allows data download from NOVUS FieldLogger
- Easy configuration of Modbus communication parameters for NOVUS products
- Modbus RTU and Modbus TCP protocols
- Operations mode Client and Server: within a corporative network, it is possible to distribute the supervision among multiple computers connected to a TCP/IP network. A SuperView station can be executed as Client, Server or both modes
- Remote activation for historic, tasks and formulas with a SuperView Client
- Complies with technical requirements of FDA 21 CFR Part 11 and ANVISA



Supervisory Software FieldChart



FieldChart for Windows® supports communication and management of data collected by FieldLogger and other devices from NOVUS, such as controllers and indicators. Easy to use, no previous training is required. It transfers data to the computer, plotting on-line and recording data. It features zoom, table view, charts overlap, printing and table data export to spreadsheets or text editors. When "online" it communicates with up to 8 FieldLogger units or 64 controllers or indicators, thus making possible to monitor and plot up to 64 channels of analog variables. High and Low alarms can be assigned to each channel.

- Channel data is presented as chart and digital display
- Online monitoring of data in the Modbus network
- Up to 8 channels per chart
- Data recorder: samples of each channel are stored in disk at programmable intervals
- Stored data displayed as chart or data table
- Exports stored data in XLS and TXT formats
- 8 channels version: 1 chart display. Enables to display up to 8 channels of 1 FieldLogger or of 8 variables in different NOVUS devices
- 64 channel version: Displays up to 8 charts. Enables to display up to 8 channels of 8 FieldLoggers or of 64 variables in different NOVUS devices
- Communication protocol: Modbus RTU Master. Enables reading operations in
- NOVUS devices connected to the Modbus network
- Communication Interface; Single serial port, selectable from 1200 to 57600 bps
- FieldLogger data download: can transfer batch of data from FieldLogger memory to PC files
- Includes a menu option to start FieldLogger configurator software
- Individual supervision of alarms for each monitored variable, with visual and audible warning
- Chart handling: zoom, merge and overlap

