

Two phase supply monitor 1430 Smart indicator series



- ▶ Monitors appliance and incoming supply
- ▶ Direct replacement for Neon indicator
- ▶ Simple equipment safety indication
- ▶ Checks for swapped connections
- ▶ Checks for missing connections
- ▶ Checks for blown fuses
- ▶ Green LED indicates normal operation
- ▶ Flashing Red LED indicates a fault
- ▶ Convenient snap-in design
- ▶ Fast-on terminals
- ▶ Panel cut out:
30.0 x 11.0

120V Phase/Neutral $\pm 20\%$.
208V & 240V Phase/Phase
Less than 1 watt (power consumption)

C **US** UL Recognised. File no. E311309



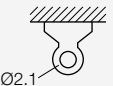
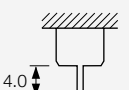
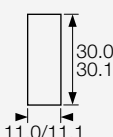
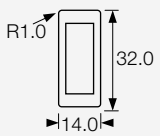
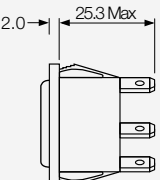
CE Mark

FCC compliant

RoHS compliant

C 1436 A L - - -

TERMINAL FUNCTION SOFTLINE LENS BODY VOLTAGE, COLOUR

▶ TERMINAL	▶ BODY & DIMENSIONS	▶ SPECIFICATION
<p>C</p>  <p>6.3 x 0.8</p> <p>H</p>  <p>4.8 x 0.8</p> <p>T</p>  <p>Ø2.1 Solder</p> <p>X</p>  <p>4.0 PCB 0.8Sq</p>	<p>L Panel Cut-Out</p>  <p>30.0 30.1 11.0/11.1</p> <p>Bezel</p>  <p>R1.0 32.0 14.0</p> <p>Dimensions</p>  <p>2.0 25.3 Max</p>	<p>Dimensions</p> <p>Bezel 32.0mm x 14.0mm Panel cut-out 11.0/11.1mm x 30.0/30.1mm 0.75mm to 2.5mm</p> <p>Panel thickness</p> <p>0.75mm to 2.5mm</p> <p>Body Lens Terminals Flame retardancy RoHS compliant</p> <p>Nylon 6.6, matt finish, black colour is standard Clear Polycarbonate, Softline matt finish Copper alloy, Silver plated UL94V0 Yes</p> <p>Operating supply</p> <p>120V Phase/Neutral $\pm 20\%$ 50/60Hz. 208V & 240V Phase/Phase Less than 1 Watt</p> <p>Power consumption</p> <p>Less than 1 Watt</p> <p>Operating conditions (body)</p> <p>-20°C to +70°C (-4°F to 158°F) 0 to 95% RH (non-condensing)</p> <p>Electromagnetic Compatibility</p> <p>Compliant with directives 89/336/EEC & 92/31/EEC</p> <p>EMC Immunity</p> <p>EN 55014-2:1997 Household appliances EN 61000-6-2:2005 Industrial Environments, 10 V/m EN 61000-4-2:1995 Electrostatic Discharges (ESD) EN 61000-4-3:2002 RF Electromagnetic fields EN 61000-4-4:2004 Fast Transients & Bursts EN 61000-4-5:1995 Surges EN 61000-4-6:1996 Conducted disturbances EN 61000-4-11:2004 Voltage dips & interruptions</p> <p>EMC Emissions</p> <p>EN 55014-1:2001 Household appliances EN 55022 Class B:1998 Domestic environments</p> <p>Approvals</p> <p>UL Recognised FCC Compliant CE Mark</p> <p>Standards</p> <p>UL 508 CSA C22.2 No. 14-05</p>

All dimensions in millimetres (mm)

APPLICATIONS

- ▶ **Monitoring of two phases and Neutral**
- ▶ **Indication that the service is wired correctly**
- ▶ **Blown fuse indication – detects loss of one phase**
- ▶ **Power Distribution Units/Switchboards – Monitoring incoming supply**
- ▶ **Portable or Site equipment – Monitoring of temporary supply connections**

INDICATIONS

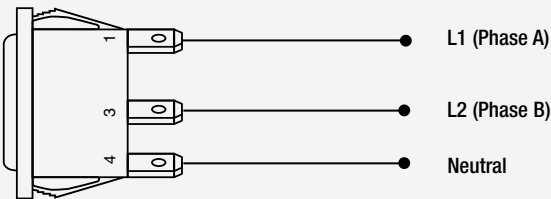
High-power loads such as cooking equipment, heaters, or air conditioning can be connected across two phases to operate at 208V or 240V. Some appliances require 120V phase/neutral and 208/240V phase/phase connections, and can be damaged if incorrectly connected. Often equipment can exhibit unusual behavior if one phase is lost (for example, due to a blown fuse).

The Smart Indicator connects directly to Neutral and the two phases, continuously monitoring the presence of all three conductors and ensuring that phase and neutral wires have not been wrongly connected. Faulty connections could result in 208 or 240 Volts being applied to 120V rated circuits, leading to equipment damage.

Only when the correct electrical connections are made will the Green LED illuminate, giving a clear indication of normal operation. Incorrect or missing connections will illuminate and flash the Red LED. Additionally, the loss of one phase connection will flash the Red LED, useful for indicating fuse failure.

The Smart indicator can replace any standard neon indicator, maintaining the minimal on/off indication that is usually found on equipment, whilst adding essential diagnostic display information for common problems such as incorrect or missing connections and blown fuses.

CONNECTIONS



PART NUMBER

1436AL

Specify Terminal Type:	C, H, T, X
Specify Model Code:	1436AL
Specify Supply Voltage:	120V Ph./N (208V/240V Ph./Ph.)
Specify LED Colour:	Green/Red, Blue/Red