Maintenance indicator 1430 Smart indicator series

- ▶ Monitors appliance usage
- ▶ Preventative maintenance reminder
- ▶ Internal microcontroller and power supply
- ▶ Built using Surface Mount Technology
- ▶ Counts time that mains power is applied
- ▶ Remembers accumulated time even if power is switched off
- ▶ Connecting 'reset' terminal to Neutral resets timer to zero
- ▶ Flexible configuration & functionality in firmware
- ▶ Convenient snap-in design, fits standard panel cut-out
- ▶ Choice of connection terminals
- ▶ Panel cut-out: 30.0x11.0mm

230Vac. 115Vac, 48V, 24V & 12V
Less than 1 watt (power consumption)

c $\mathbf{UL}$ us **UL Recognised. File no. E311309**

C E **CE Mark**

FC **FCC compliant**

RoHS **RoHS compliant**

C 1432 A L - - -

TERMINAL | FUNCTION | SOFTLINE LENS | BODY | VOLTAGE, COLOUR, TIME

▶ TERMINAL	▶ BODY & DIMENSIONS	▶ SPECIFICATION

C

6.3 x 0.8

H

4.8 x 0.8

T

Ø2.1

Solder

X

4.0

PCB 0.8Sq

All dimensions in millimetres (mm)

L Panel Cut-Out

30.0
30.1

11.0/11.1

Bezel

R1.0

32.0

14.0

Dimensions

2.0 25.3 Max

Specification	
Dimensions	Bezel 32.0mm x 14.0mm
	Panel cut-out 11.0/11.1mm x 30.0/30.1mm
Panel thickness	0.75mm to 2.5mm
Body	Nylon 6.6, matt finish, black colour is standard
Lens	Clear Polycarbonate, Softline matt finish
Terminals	Copper alloy, Silver plated
Flame retardancy	UL94V0
RoHS compliant	Yes
Operating supply	230V ±20% 50/60Hz.
	115Vac, 48Vdc, 48Vac, 24Vdc, 24Vac, 12Vdc & 12Vac
Power consumption	Less than 1 Watt
Operating conditions (body)	-20°C to +70°C (-4°F to 158°F)
	0 to 95% RH (non-condensing)
Electromagnetic Compatibility	Compliant with directives 89/336/EEC & 92/31/EEC
EMC Immunity	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
EMC Emissions	EN 55014-1:2001 Household appliances
	EN 55022 Class B:1998 Domestic environments
Timing period	Any period from 1 minute to greater than 10 years
Timing accuracy	2% of scale
Approvals	UL Recognised
	CE Mark
	FCC Compliant
Standards	UL 508
	CSA C22.2 No. 14-05

electronics

APPLICATIONS

▸ **Coffee machines – decalcification**

▸ **Deep fat fryer – oil change**

▸ **Air conditioning – filter change, bleaching**

▸ **Vacuum cleaner – filter cleaning**

▸ **Motorised equipment – preventative maintenance, lubrication, belt change**

▸ **Petrol/Diesel engine generator – engine service**

▸ **Central heating – gas appliance inspection**

▸ **Inspection/cleaning interval reminder – washrooms, kitchens**

▸ **Equipment calibration interval reminder**

▸ **Electrical safety check interval reminder**

OPERATION

The smart indicator operates like a standard neon indicator, giving visible status indication for the appliance or application. Normal operation will show continuous Green LED illumination (contact sales for other colours).
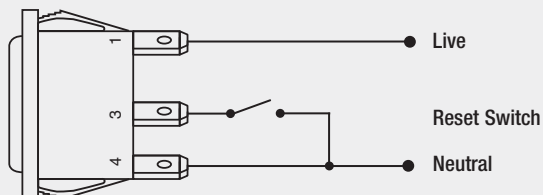
When the accrued usage time exceeds the factory-set time limit, the LED illumination changes colour to Red (contact sales for other colours) and starts to flash on/off to attract user attention. The indicator will continue to flash on subsequent appliance use, until the maintenance operation is carried out and the reset procedure followed.

To reset the indicator after maintenance operations are completed, simply link terminal 3 to terminal 4 while the indicator is powered. This could be a key-operated switch or a service button within the appliance.

The service interval time is factory programmed, and can be any time period from as little as one minute, up to tens of years.

CONNECTIONS

1 — Live

3 — Reset Switch

4 — Neutral

PART NUMBER

1432AL

Specify Terminal Type:	C, H, T, X
Specify Model Code:	1432AL
Specify Supply Voltage:	230Vac, 115Vac, 48Vdc, 48Vac, 24Vdc, 24Vac, 12Vdc, 12Vac
Specify LED Colour:	Green/Red, Blue/Red
Specify Time Setting:	Time interval between 1 minute and 10 years. Specify the required time in minutes, hours, days, weeks or months.