



## MAINS SWITCHING INPUT/OUTPUT UNIT

### FUNCTION

The Mains switching Input/Output Unit provides a voltage-free, single pole change-over relay output and a monitored switch input.

### FEATURES

The Mains Switching Input/Output Unit supervises one or more normally-open switches to a single pair of cables.

### ELECTRICAL CONSIDERATIONS

The Mains Switching Input/Output Unit is loop powered and operates at 17-28Vdc with protocol voltage pulses of 5-9V. The loop connections are polarity sensitive.

### MECHANICAL CONSTRUCTION

The Mains Switching Input/Output Units are supplied with a back box for surface mounting. It is designed for indoor use only.

Three LEDs, two red and one yellow, are visible through the front cover of the enclosure.

One red LED is illuminated to indicate that the relay is set. The second red LED is illuminated to indicate that the switch input is closed.

The yellow LED is illuminated whenever a fault condition (open or short circuit) has been detected.



Part no 55000-875

All LED indicators can be disabled using segment 8 of the DIL switch.

The enclosure is moulded from polycarbonate.

Dimensions and weight of Mains Switching Input/Output Unit:

150 x 90 x 48mm

240g





**Technical Data**

Series 90/XP95 Loop Voltage	17-28V DC
Max current consumption at 24V DC	24V DC
<b>LED Enabled</b>	
Switch-on surge, max 150ms	3.5mA
Quiescent, 20kΩ EOL fitted	1.25mA
Switch input closed	
'switch closed' LED on	2.5mA
any other condition, max 2 LEDs on	2mA
<b>LED Disabled</b>	
Switch-on surge, max 150ms	3.5mA
Quiescent, 20kΩ EOL fitted	1.2mA
Switch input closed	1.5mA
Any other condition	2mA
Rated Load (resistive)	5A at 250V AC
	2A at 48V DC
Max switching capacity	1.25kVA
Switch input monitoring voltage (open circuit condition)	9-11V DC
Maximum cable resistance	50Ω

**Environmental Data**

Operating temperature	-20°C to +70°C
Humidity (no condensation)	0-95%
Cyclic humidity	} to EFSG/F/95/007
Impact	
Surface temperature under max load	} BSEN61010-1:1993
Vibration	
Rigidity	
Dielectric strength	
IP rating	54
CE marked	

**Schematic Diagram and Wiring Connections**

