



OUTPUT UNIT WITH ISOLATOR

FUNCTION

The Output Unit with Isolator provides two Voltage-free, single pole, change-over relay outputs.

FEATURES

The Output Unit returns an analogue value of 16 under all conditions.

The Output Unit is fitted with a bi-directional short-circuit Isolator and will be unaffected by loop Short-circuits on either loop input or output.

ELECTRICAL CONSIDERATIONS

The Output Unit is loop powered and operates at 17-28v DC with protocol voltage pulses of 5-9v.

The Output Unit is designed to accept a maximum line resistance of 50Ω.

MECHANICAL CONSTRUCTION

The Output Unit is normally supplied with a back box for surface mounting. It is also available without back box for flush mounting. Both versions are designed for indoor use only.

One red LED and one yellow LED are visible through the front cover of the enclosure. The red LED is illuminated to indicate that the relay is set.



Part no 55000-849

The yellow LED is illuminated whenever the built-in Isolator has sensed a short circuit loop fault.

The enclosure is made from white polycarbonate.

Dimensions and weight (surface mount):
150 x 90 48mm 240g





Technical Data

Minimum loop operating voltage in normal conditions 17V DC
 Maximum loop operating voltage 28V DC

Maximum current consumption at 24VDC no Protocol
 Switch-on surge, max 100ms 3mA
 Quiescent, 20kΩ EOL fitted 400μA
 Relay operated 1.8mA
 Relay operated (LED disabled) 600μA
 Relay output contact rating at 30V AC or DC 1A
 (inductive or resistive)

Relay output wetting current
 at 10mV DC 10μA
 On resistance 0.2Ω
 Maximum continuous current 1A
 maximum switching current 3A
 maximum load 20 Discovery detectors
 Operating temperature -20°C to +70°C
 Humidity (no condensation) 0-95%
 Shock }
 Vibration } to GB 1-052
 Impact }
 IP rating 54
 Radiated and conducted RF emissions to BS EN 61000-6-3:2001
 Radiated and conducted RF Immunity to BS EN 50130-4:1996



Low Voltage Directive 73/23/EEC
 No electrical supply greater than 50V AC rms or 75V DC should be connected to any terminal of this Isolated Output Unit.

A copy of the Declaration of Conformity is available on request.

Schematic Diagram and Wiring Connections

