



DIN-RAIL SWITCH MONITOR

FUNCTION

The DIN-Rail Switch Monitor is designed to monitor the state of one or more single pole, volt free contacts connected on a single pair of cables and to report the status to Apollo compatible analogue control equipment.

FEATURES

The DIN-Rail Switch Monitor provides four input states to the control equipment: 'Normal', 'Fault', 'Pre-alarm' and 'Alarm'. The unit has a red LED to indicate an alarm and a yellow LED to indicate a fault condition.

ELECTRICAL CONSIDERATIONS

The DIN-Rail Switch Monitor is loop powered and operates at 17-28V DC with protocol voltage pulses of 5-9V. The unit is designed to accept a maximum line resistance of 50Ω. The end-of-line resistor required is 20kΩ.

PROTOCOL COMPATIBILITY

The DIN-Rail Switch Monitor will operate only with control equipment using the Apollo XP95 or Discovery protocol.



Part no. 55000-822

Dimensions and weight of DIN-Rail Switch Monitor
110 x 107 x 20mm 95g

Two DIN-Rail enclosures are available:
4 way 29600-239
10 way 29600-240



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MECHANICAL CONSTRUCTION

The DIN-Rail Switch Monitor is supplied in a housing which is clipped onto a standard 35mm DIN rail (DIN 46277) or fixed directly to the enclosure using two 4mm screws.

Connections are made via plug-in terminal blocks which accept wires up to 2.5mm².

Two LEDs, one red and one yellow, are visible through the top cover of the enclosure.

The red LED is switched by the control panel and can be illuminated in the event of an alarm condition being detected.

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

EMC DIRECTIVE 89/336/EEC

The DIN-Rail Switch Monitor complies with the essential requirements of the EMC directive 89/336/EEC, provided that it is used as described in this PIN sheet.

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

Conformity of the DIN-Rail Switch Monitor with the EMC directive does not confer compliance with the directive on any apparatus or systems connected to it.

Technical data

Loop voltage	17-28V DC
Maximum current consumption, at 24V	
switch-on surge, max 65ms	2.5mA
quiescent, 20k Ω EOL fitted	730 μ A
input short circuit	3.5mA
LED off, switch input closed	1.3mA
LED on, switch input closed	3.4mA
LED on, switch input s/c	5.6mA
Switch input monitoring voltage	9-11V DC
Maximum cable resistance	50 Ω
Operating temperature	-20°C to +70°C
Humidity (no condensation)	0-95%RH
Shock	} to EFG/F/95/007
Vibration	
Impact	
IP rating	20
Radiated emissions	to BS EN50081-1 & 2
Radiated immunity	to BS EN50082-1

For further technical information please refer to PP2048-T, available on request.

Dimensional Drawing (mm)

