



# DIN-RAIL SWITCH MONITOR PLUS

## FUNCTION

The DIN-Rail Switch Monitor Plus 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. It has an output for resetting a remote detector and a selectable alarm delay, making it suitable for monitoring flow switches.

## FEATURES

The DIN-Rail Switch Monitor Plus provides four input states to the control equipment: 'Normal', 'Fault', 'Pre-alarm' and 'Alarm'. The Switch Monitor Plus has a red LED to indicate an alarm and a yellow LED to indicate a fault condition. The 30 second delay is selected by using the eighth bit of the DIL switch.

## ELECTRICAL CONSIDERATIONS

The DIN-Rail Switch Monitor Plus 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. The opto-coupled reset takes the form of a current limited transistor output.

## PROTOCOL COMPATIBILITY

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



Part no. 55000-821

## Dimensions and weight of DIN-Rail Switch Monitor Plus:

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 Plus 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 2.5mm<sup>2</sup>.

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 Plus 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 Plus 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 $\Omega$ EOL fitted	730 $\mu$ 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
Opto output voltage range	5-30V DC
Guaranteed opto current	1mA
Switch input monitoring voltage	9-11V DC
Maximum cable resistance	50 $\Omega$
Operating temperature	-20°C to +70°C
Humidity (no condensation)	0-95%RH
Shock	} to EFGS/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 PP2047-T, available on request.*

### Dimensional Drawing (mm)

