Addressable Isolating Detector Base

Features

- Up to 20 detectors or their equivalent load, may be installed between isolating bases
- High brightness LED
- Detects wiring short-circuits
- Minimises disruption from short circuits

Description

The Isolating Base senses and detects short-circuit faults on XP95/Discovery loops and spurs.

The Isolating Base is loop-powered, polarity sensitive and accepts the XPERT card to set the associated device address. In short circuit conditions the integral yellow LED is illuminated. The detector associated with the base remains active under short circuit conditions. Power and signals to the affected section are restored automatically when the fault is cleared.

The base is intended for use only with control equipment using the Apollo XP95/Discovery communication protocol.

Under normal operating conditions, a low impedance is present between the –IN and –OUT terminals of the base, this allows power and communication signals to pass to the next base in line.

If a short circuit or abnormally low impedance occurs, the fall in negative voltage is sensed and the base isolates the negative supply in the direction of the fault. The isolated section is tested using a current pulse every five seconds. When the short circuit is removed the power will automatically be restored.

If it is a requirement that no device is lost in the event of a single short circuit fault, every detector should be fitted with an isolating base. (Refer to Loop Calculator for loop limitations)

In most applications where it is not necessary to use an isolating base for each detector, up to twenty detectors (Maximum) or equivalent surge current may be installed between isolating bases or other devices incorporating short circuit isolation.

Isolating Base

Item Numbers

Australia	
201-0125	XP95/Discovery Isolating Base with Xpert Card
International	
45681-284AMP	XP95/Discovery Isolating Base with Xpert Card

Specifications

Minimum supply voltage in normal operating conditions	17V DC
Maximum supply voltage	28VDC
Isolation indicator	Yellow LED, lit continuously in isolation condition
Current consumption	
at 18V DC	23µA
at 28V DC	43µA
at 18V DC and adjacent sector isolated	4mA
Maximum line current	
non-isolating continuous	1.0A
transition into isolation	3.0A
Dimensions	100mm Dia x 24mm H
Operating temperature	-20℃ to +60℃ (no icing)
Relative humidity.	0 to 95% (non condensing)
IP rating	IP23D (Indoor use only)

For further information refer Product Guide MAN3037.