Product data sheet

DB2016

2000 Series Isolator Base

General

The DB2016 isolator base senses and isolates overload and short circuit faults on a 2000 series fire detector loop. A yellow LED on the device indicates an isolation condition. The detector connected to the DB2016 still receives power in the event of a single short circuit. If every detector in the loop is fitted with an isolator base, no devices are lost in the event of a single short circuit.

Functionality and use

The function of the DB2016 is to protect the integrity of the addressable loop in the case of an overload or short-circuit on part of the loop. In such event, the entire data circuit is not lost but only the effected part of the loop is isolated.

For full protection it is recommended that every detector be fitted with a DB2016 isolator base. For regulatory purposes it is specified that not more than a single detection zone is affected by a single fault on the loop, containing no more than 32 devices.

The DB2016 is only suitable for use in dry areas.

Details

- Protection against overload conditions
- Automatic restore when fault is corrected
- LED indicates isolation condition
- Detector connected to isolator remains operational

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Technical specifications

General

Status indication	Yellow LED
Compatibility	Aritech 2000 systems
Connectivity	2-wire loop & remote indicator
Addressing method	No addressing required

Electrical

Power supply type	Loop powered
Operating voltage	17 to 34 V (28 V nominal)
Current consumption	30 µA (standby) < 1.6 mA (isolated)

Detection

Monitoring	Short circuit

Isolation

Type	Negative line break
Series resistance	0.1Ω
Switch current	800 mA (max))
Isolation voltage	14 V
Reconnect voltage	14.5 V

Physical

Physical dimensions	100 x 13 mm (Ø x H)
Net weight	49 g
Colour	Cloud white (RAL 9001)
Mounting type	Ceiling mount
Cable entries	1
No. of cable cores	2
Terminals	5

Environmental

Vandal proof	No
Operating temperature	-10 to +50°C
Storage temperature	−10 to +70ºC
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP30

Standards & regulation

Compliancy	CE, REACH, RoHS 2, WEEE
Certification	CPR
Standards	EN54-17

Last updated on 14 August 2020 - 13:23