Product Data Sheet

UTC Fire & Security
A United Technologies Company

DB2016

2000 Series Detector Isolating 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.

Standard Features

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

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Specifications

Operating voltage	17 - 34 V (28 V nominal)
Current consumption	
Standby	30 µA
Isolated	< 1.6 mA
Passing current (max)	800 mA
Line resistance	
Normal	0.1 Ohms
Switching voltage	
Normal to isolated	14 V
Isolated to normal	14.5 V
Environmental	
Operating temperature	-10°C to +50°C
Operating humidity	0 - 95%; Non-condensing
IP Rating	IP30
Physical	
Dimensions (Dia x h)	100 x 13 mm
Weight	47 g
Colour	Cloud White (RAL9001)
Isolation line	Negative breaking isolator

Ordering Information

Part No.	Description
DB2016	2000 Series Detector Isolating Base