



DP2051
Optical Sensor

User Friendly

Fitted with an exclusive 7-segment display, the detectors provide comprehensive, on the spot information. In addition to alarm signalling, information such as Fault, Pre-alarm, Maintenance Alarm (Clean me), Disabled Sensor, Sensor in Test, Error (double address, wrong sensor type) and Sensor Polled is provided.

Each detector is equipped with an internal reedswitch. If the reedswitch is tripped at any time with an external magnet, the detector displays its address and Real Time Analogue Value.

Sensors are individually identified by setting an address through 2 rotary switches. The address is straight numerical and does not require binary or hex conversions which significantly reduces the risk of incorrect addressing.

Maintenance Friendly

Photo-electric sensors are equipped with the disposable optical chamber. This allows sensors to be serviced in the field without operating through an exchange pool. All sensors are compatible with a standard base, which makes them easily interchangeable.

State of the Art Communication

Panel to service communication is provided through the powerful industry standard SIA protocol. Such a protocol features multiple buscycle codes and CRC errorchecking.

This enhanced protocol ensures the overall integrity and errorfree operation of the full system, without compromising speed.

Extended Applications

A comprehensive range of accessories complements this range. The following accessories exist: isolator, sounder circuit controller, zone monitor unit and a variety of I/O modules. Also a full line of manual call points is available.

Isolator base

The DB2016 isolator base senses and isolates short circuit faults. A yellow LED indicates a short circuit condition. The detector in the base will still receive power in the event of a single short circuit. If every detector is fitted with an isolator base then no device will be lost in the event of a single short circuit.



Standard Features

- **Remote test capabilities**
- **Remote signalling capabilities**
- **Optical sensor with field exchangeable optical chamber**
- **Easy numeric addressing (1-128)**
- **Enhanced communication protocol**
- **Full diagnostic self testing**
- **Polarity insensitive**
- **Full range: optical and heat**
- **Full range of I/O units and accessories**
- **Isolator base**
- **EN54 approved**
- **VdS approved**



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Specifications

Operating Voltage	17 - 28 V dc
Current consumption at 24 V dc	
Quiescent	< 150 A
Alarm	LED: 2 mA - 7-segment: 2 mA
Alarm indication	White LED (red alarm)
Remote alarm output	Not provided
Max. wind	-
Humidity	0 - 95% non condensing
IP rating	IP43
Source	-
Dimensions	
Height	5 cm
Diameter	10 cm

Ordering Information

Part No.	Description
DP2051	Optical Sensor
DB2001	Standard Base 10 cm, 2 Terminals
DB2016	Isolating base



GE Security

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