



Product Data Sheet

DP2071

2000 Series Optical Detector with 7-segment Display and Remote LED Output

General

The DP2071 is a 2000 series protocol, addressable optical detector. It is equipped with a field-exchangeable optical block as well as an exclusive 7-segment display that provides comprehensive, on the spot information. In addition to alarm signaling, information such as fault, pre-alarm, maintenance alarm (clean me), disable, test, error (double address, wrong sensor type) and sensor polling are indicated locally on the device.

Installation Friendly

The DP2071s are individually identified by setting an address through two rotary switches. The address is a straight numerical value and does not require binary or hexadecimal conversions that significantly reduces the risk of incorrect addressing. All 2000 series sensors are compatible with a standard base that makes them easily interchangeable.

Maintenance Friendly

The disposable optical chamber allows the DP2071 sensors to be serviced in the field without operating through an exchange pool. In addition, every detector is also fitted with an internal reed switch. When this switch is activated at any time with an external magnet, the detector displays its address and real time analogue value.

State of the Art Communication

Panel to device communication is provided through a powerful SIA protocol featuring multiple bus cycle codes and CRC error checking. This enhanced protocol ensures the overall integrity and error free operation of the full system, without compromising speed.

Extended Applications

A comprehensive range of accessories complements the 2000 series device range. The following accessories exist:

- A comprehensive line of bases
- Temperature and Multi-Sensors
- Stand alone isolators
- Sounder circuit controllers
- Conventional zone monitoring units
- Various I/O modules.
- A comprehensive line of manual call points



Standard Features

- 7-segment display
- 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 of detectors available
- Full range of I/O units and accessories
- Isolator base
- EN54 and VdS approved

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Specifications

Operating voltage	17 - 28 VDC
Current consumption	
Quiescent @ 24 VDC	< 150 microA
Alarm @ 24 VDC	4 mA
Alarm indication	LED and 7-Seg. Disp.
Remote alarm output	4 mA
Environmental	
Humidity (noncond.)	10 - 95%
Storage temperature	-10°C to +70°C
Operating temperature	-10°C to +60°C
IP rating	IP43
Physical	
Dimensions (Ø x h)	10 x 5 cm
Colour	White
Weight	118 g
Coverage	
Area	80 m²
Height	3.8 to 4.2 m
Compliance	EN54-7

Ordering Information

Part No.	Description
DP2071	2000 Series Optical Detector with 7-segment Display and Remote LED Output
DB2002	2000 Series Base 10 cm, 5 Terminals
DB2002U	2000 Series Base 15 cm, 5 Terminals
DB2004	2000 Series Deep Base, 5 Terminals
DB2016	2000 Series Isolating Base
AI672	Optical Remote Indicator
AI673	Optical and Accustical Remote Indicator
211	Optical Replacement Chamber for 400, 500, 700 and 2000 Series Detectors
DP2CAP-ICT	2000/700 Series Insect Protection Cap

