



Product Data Sheet

DP2071

2000 Series Optical Sensor 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.) | 0 - 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 |
| Compliance | EN54-7 |

Ordering Information

| Part No. | Description |
|------------|---|
| DP2071 | 2000 Series Optical Sensor 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 |

