

## OR380421

### Optical sensors • Retro-reflective sensors

sensor optical, reflective, 48x38x15mm, Infrared light, Point, Manual adjustment, Sn: 2000, 10-30V DC, -40-60°C, PNP Anticoincidence, Connector M12 5pin, IP67, Metal+Glass



Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists of two separate devices, a transmitter and a receiver that are aligned with one another. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. With the retro-reflective sensor, the transmitter and receiver are located in one device. The emitted light beam is reflected back to the receiver by a reflector that is to be mounted opposite the device. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. With the diffuse reflection sensor, the transmitter and receiver are in one device. The emitted light beam is reflected by the object that is to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

#### Electrical features

Response/decay time	0.33ms
Type of switching function	Exclusive-OR
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	100mA
Readiness delay	650ms
Setting procedure	Teach-In
Short-circuit protection	Yes
No-load current	35mA
Number of pins	5
Residual ripple	15%
Switching distance	0 - 2000mm
Switching frequency	1500Hz
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.33ms
Operating voltage (DC)	10 - 30V
Output functions	Switching point

### Mechanical features

Design	Cuboid
Width	15mm
Height	48mm
Length	38mm
Degree of protection (IP)	IP67
Volume	Medium
Active area material of sensor	glass
Housing material	Metal
Ambient temperature	-40 - 60°C

### Optical features

Light source	Infrared light
Light beam form	Point
Wavelength of the sensor	660nm

### Other features

Features	for glass detection
Reference medium / object	AO000007
Ambient temperature	-40 - 60°C

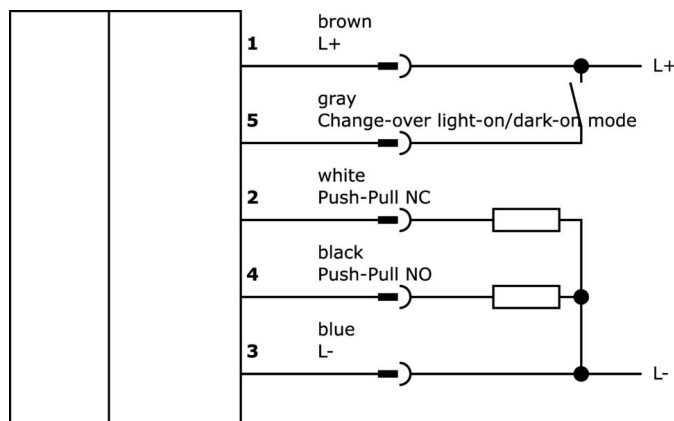
### Classification

ETIM 8	EC002717 Retro-reflective sensor
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### More

IPF Product Group	100 optical sensors
packaging dimensions	123 x 77 x 25 mm
gross weight	90 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

### Connection



**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal****Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).