

## OE150275

### Optical sensors • Through-beam sensors receivers

sensor optical, Through-beam sensor receiver, 30x30x15mm, Sn: 6m, 10-35V DC, PNP NC (NC), Connector M8, IP65, PBTP+Glass, Infrared light



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	0.5ms
Display	LED display
Type of switching function	Normally closed contact (NC)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	200mA
Readiness delay	100ms
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	10mA
No-load current, receiver	10mA
Residual ripple	20%
Switching distance	0 - 6000mm
Switching frequency	1000Hz
Voltage drop	2V
Scanning function	Light switching
Reverse polarity protection	Yes
Decay time	0.5ms
Operating voltage (DC)	10 - 35V
Output functions	Switching point

### Mechanical features

Design	Cuboid
Width	15mm
Height	30mm
Length	30mm
Degree of protection (IP)	IP65
Volume	Small
Active area material of sensor	glass
Housing material	PBT
Ambient temperature	-25 - 55°C

### Optical features

Light source	Infrared light
Light beam form	Point
Wavelength of the sensor	880nm

### Other features

Scope of delivery	Receiver
Ambient temperature	-25 - 55°C
Version	Through-beam sensor receiver

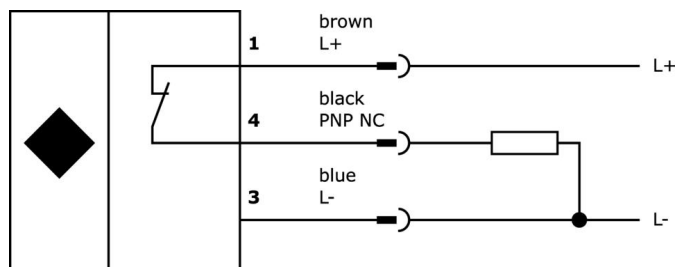
### Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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### More

IPF Product Group	100 optical sensors
packaging dimensions	210 x 180 x 15 mm
gross weight	26 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).