

OS130070

Optical sensors • Through-beam sensors transmitters

Sensor Optical, through-beam sensor Transmitter, 64x12x12mm, Sn: 1m, 10-35V diagnostic coverage, M8 connector 3-pin, IP65, brass nickel-plated (n-pltd) + plastic, 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

Display	LED display
Type of electrical connection	Connector M8
Readiness delay	15ms
No-load current	30mA
No-load current, transmitter	30mA
Number of pins	3
Switching distance	0 - 1000mm
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35V

Mechanical features

Design	Cuboid
Width	12mm
Height	64mm
Length	12mm
Surface	nickel-plated
Degree of protection (IP)	IP65
Active area material of sensor	Plastic
Housing material	Brass
Ambient temperature	-5 - 70°C

Optical features

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

Other features

Features	with test input
Scope of delivery	Transmitter
Version	Through-beam sensor transmitter

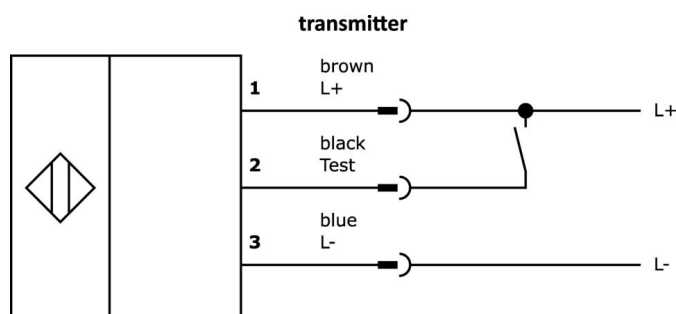
Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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More

IPF Product Group	100 optical sensors
packaging dimensions	123 x 77 x 25 mm
gross weight	45 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
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.

Dimensional drawing

