

OY120120

Optical sensors • Light receivers

sensor optical, Light receivers, M12x1 71long, 10-30V DC, PNP NC (NC), Connector M12 3pin, IP65, Brass Nickel-plated+Plastic

including 2x Nut



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 switching function	Normally open contact (NO)
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200mA
Setting procedure	Manual adjustment
Short-circuit protection	Yes
No-load current	20mA
Number of pins	3
Voltage drop	3V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

Mechanical features

Design	Cylinder, screw-thread
Thread length	44mm
Thread pitch	1mm
Length	70.8mm
Surface	nickel-plated
Degree of protection (IP)	IP65
Active area material of sensor	Plastic
Housing material	Brass
Thread dimension	M12
Ambient temperature	-10 - 75°C

Other features

Scope of delivery	Receiver
Ambient temperature	-10 - 75°C
Version	Light receiver

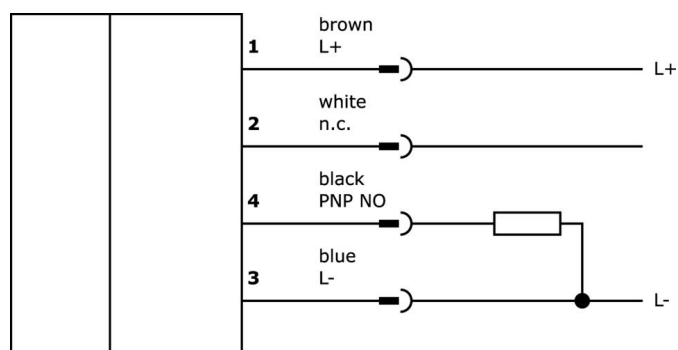
Classification

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	47 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.

Dimensional drawing

