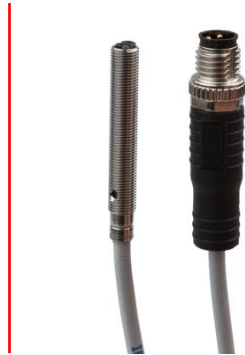


OE050175

Optical sensors • Through-beam sensors receivers

Sensor Optical, through-beam sensor Receiver, M5x0.5 36lang, Sn: 0.5m, 10-30V DC, PNP NO, IO-Link, M8 cable connector 3-pin 0.3m PUR (polyurethane), IP67, V2A+PMMA, red light unpolarized

including Nut, Toothed washer



Optical sensors work contactless. They detect objects, regardless of their properties (e.g. shape, color, surface structure, material). The basic mode of operation is based on the transmitter and receiver of light. There are three different versions: 1. the through-beam sensor consists of two separate devices, a transmitter and a receiver, which are aligned with each other. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. in the reflex light barrier, the transmitter and receiver are located in one device. The transmitted light beam is reflected onto the receiver by a reflector to be mounted opposite. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. the diffuse reflection sensor has a transmitter and receiver in one device. The transmitted light beam is reflected by the object 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	0.5 ms
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	100 mA
Short-circuit protection	Yes
No-load current	10 mA
No-load current, receiver	10 mA
Number of pins	3
Residual ripple	10 %
Switching distance	0 - 500 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Scanning function	Dark switching
Reverse polarity protection	Yes
Decay time	0.5 ms
Supported communication interface	IO-Link
Operating voltage (DC)	10 - 30 V

Mechanical features

Conductor cross-section	0.14 mm ²
Design	Cylinder, screw-thread
Thread length	30 mm
Thread pitch	0.5 mm
Cable length	0.3 m
Length	36 mm
Maximum tightening torque	1 Nm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PMMA)
Housing material	Stainless steel (V2A)
Material of cable sheath	Plastic (PUR)
Thread dimension	M5
Ambient temperature	-25 - 65 °C

Optical features

Light source	Polarity free red light
Light beam form	Point

Other features

IO-Link version	V1.0.1
-----------------	--------

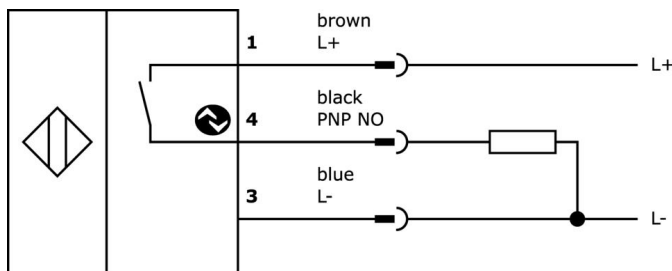
Classification

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

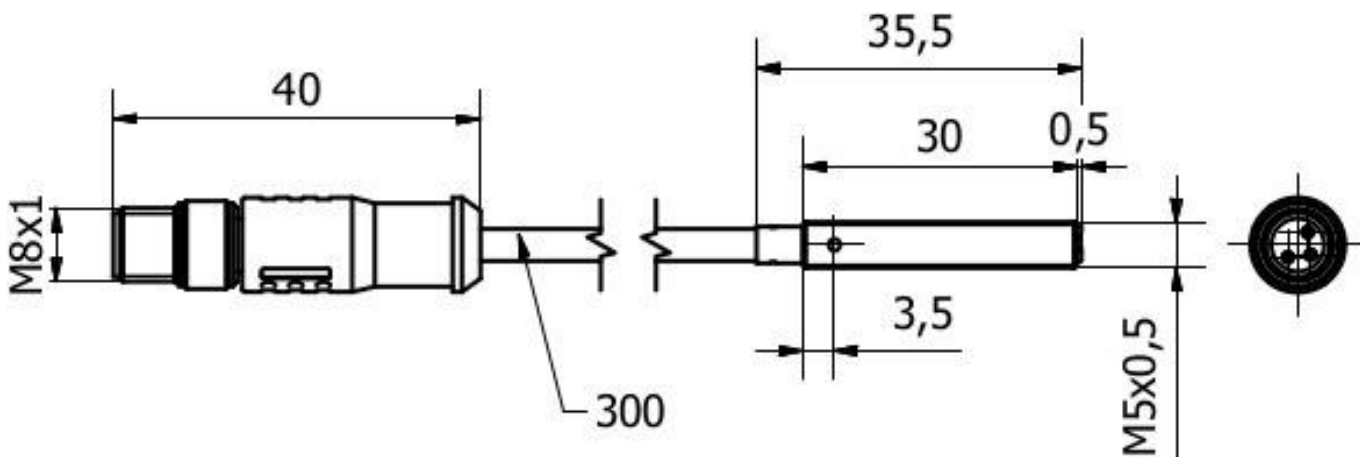
More

IPF Product Group	100 optical sensors
packaging dimensions	210 x 180 x 10 mm
gross weight	22 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY000018



accessories sensor, \varnothing 5mm, Aluminum, For sensor 5mm, for Wall mounting, Screw mounting

AY000023



accessories, Hexagon nut, M5x0.5, Wrench size 7mm, Brass Nickel-plated

AY98C293



accessories sensor, Teflon cap, M8x1 5 long, Polytetrafluorethylene (PTFE)

AV000142



accessories cable socket, Mounting clip, 8.5mm, PPO, Packaging unit 5, Accessories for Cable socket/connector M8

AY000141



Plastic sheath, \varnothing 17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

VY000005



IO-Link master, 41x24x67mm, IO-Link, M12, With USB interface

OS050075



Sensor Optical, through-beam sensor Transmitter, M5x0.5 36lang, Sn: 0.5m, 10-30V DC, IO-Link, M8 cable connector 3-pin 0.3m PUR (polyurethane), IP67, V2A+PMMA, red light unpolarized

VK000036



Adaption, M8 Female (socket) 3pin Straight, M12 Male (connector) 3pin Straight, 24V, -25-85°C, IP67, Oil and cooling lubricants, Welding area

VK200071



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), \varnothing 4.3mm, 60V, -40-90°C, IP67, TPU, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.
- /** Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com