

OS080070

Optical sensors • Through-beam sensors transmitters

Sensor Optical, through-beam sensor Transmitter, M8x0.75 75long, Sn: 2.5m, 10-30V DC, M8 plug-in connector 3-pin, IP65, nickel-plated brass+plastic PC, infrared light

including 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

Type of electrical connection	Connector M8
No-load current	48 mA
No-load current, transmitter	48 mA
Number of pins	3
Switching distance	0 - 2500 mm
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

Mechanical features

Number of cores	3
Design	Cylinder, screw-thread
Thread length	55 mm
Thread pitch	0.75 mm
Length	75 mm
Surface	nickel-plated
Degree of protection (IP)	IP65
Active area material of sensor	Plastic (PC)
Housing material	Brass
Thread dimension	M8
Ambient temperature	-25 - 65 °C

Optical features

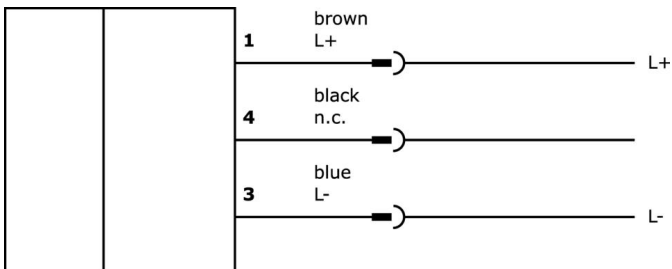
Light source	Infrared light
Light beam form	Point
Wavelength of the sensor	880 nm

Classification

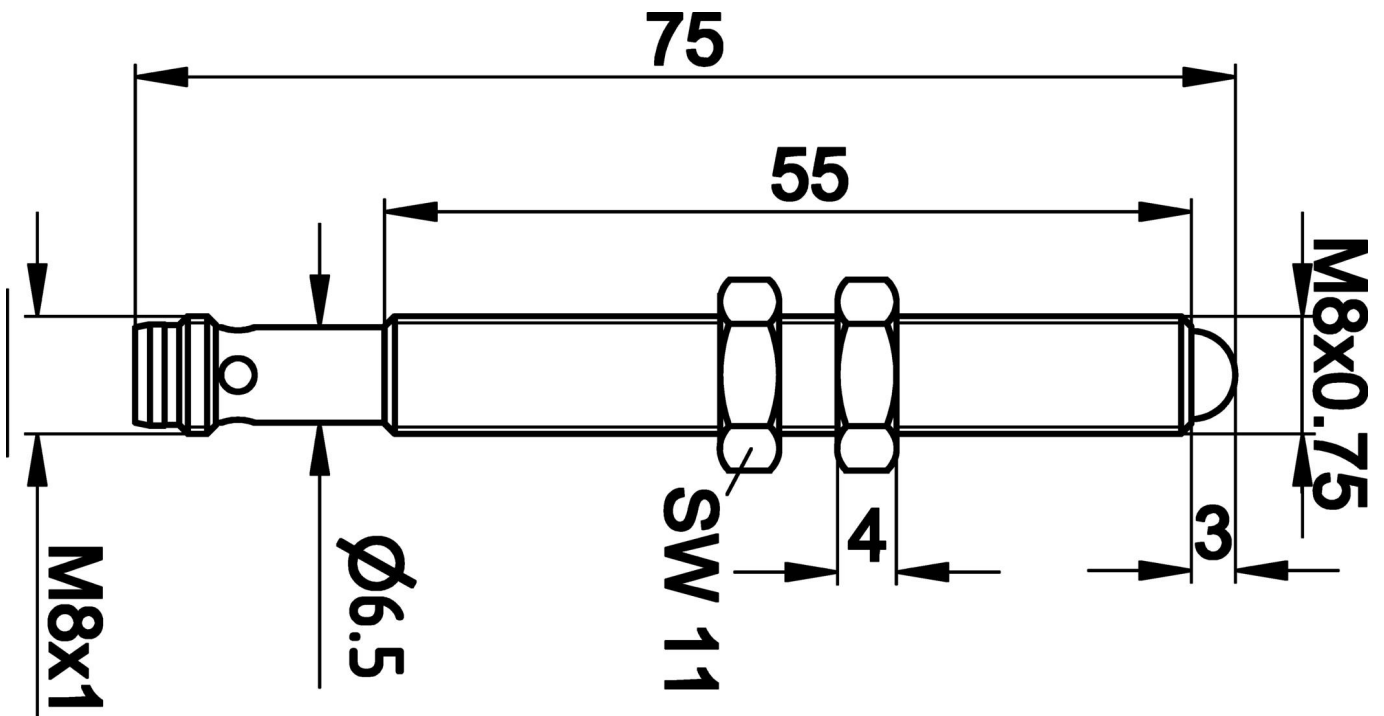
ETIM 8	EC002716 Through-beam photoelectric sensor
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More

IPF Product Group	100 optical sensors
packaging dimensions	123 x 77 x 25 mm
gross weight	32 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Dimensional drawing



Extract accessories program

VK030F70

Connection cable, 0.3m, M8 socket 3-pin angular, M8 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F74

Connection cable, 0.3m, M8 socket 3-pin straight, M8 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F72

Connection cable, 0.3m, M8 socket 3-pin angular, M8 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK060F72

Connection cable, 0.6m, M8 socket 3-pin angular, M8 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F82

Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK060F82

Connection cable, 0.6m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F80

Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F84

Connection cable, 0.3m, M8 socket 3-pin straight, M12 connector 3-pin straight, 3x0. 34mm², PUR (polyurethane), 60V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK003070

Cable socket, Angular, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Female (socket) 3pin, IP67, Brass

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.