

PEQ80376

Laser sensors • Through-beam sensors receivers

Sensor laser, through-beam sensor receiver, 26x15x8mm, Sn: 4000mm, 10-30V DC, 1x PNP NC/NO, M8 connector 4-pin 0.2m PUR (polyurethane), IP67, PUR (polyurethane)+PMMA, 4kHz, teach-in



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	0.125 ms
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	50 mA
Short-circuit protection	Yes
No-load current	12 mA
No-load current, receiver	12 mA
Number of pins	4
Switching distance	0 - 4000 mm
Switching frequency	4000 Hz
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.125 ms
Operating voltage (DC)	12 - 32 V

Mechanical features

Number of cores	4
Design	Cuboid
Width	8 mm
Height	26.7 mm
Storage temperature	-20 - 85 °C
Length	14.6 mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PMMA)
Housing material	PUR (Polyurethane)
Material of cable sheath	Plastic (PUR)
Ambient temperature	-20 - 50 °C

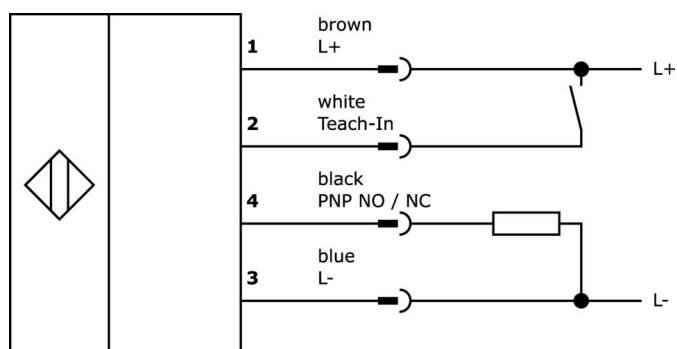
Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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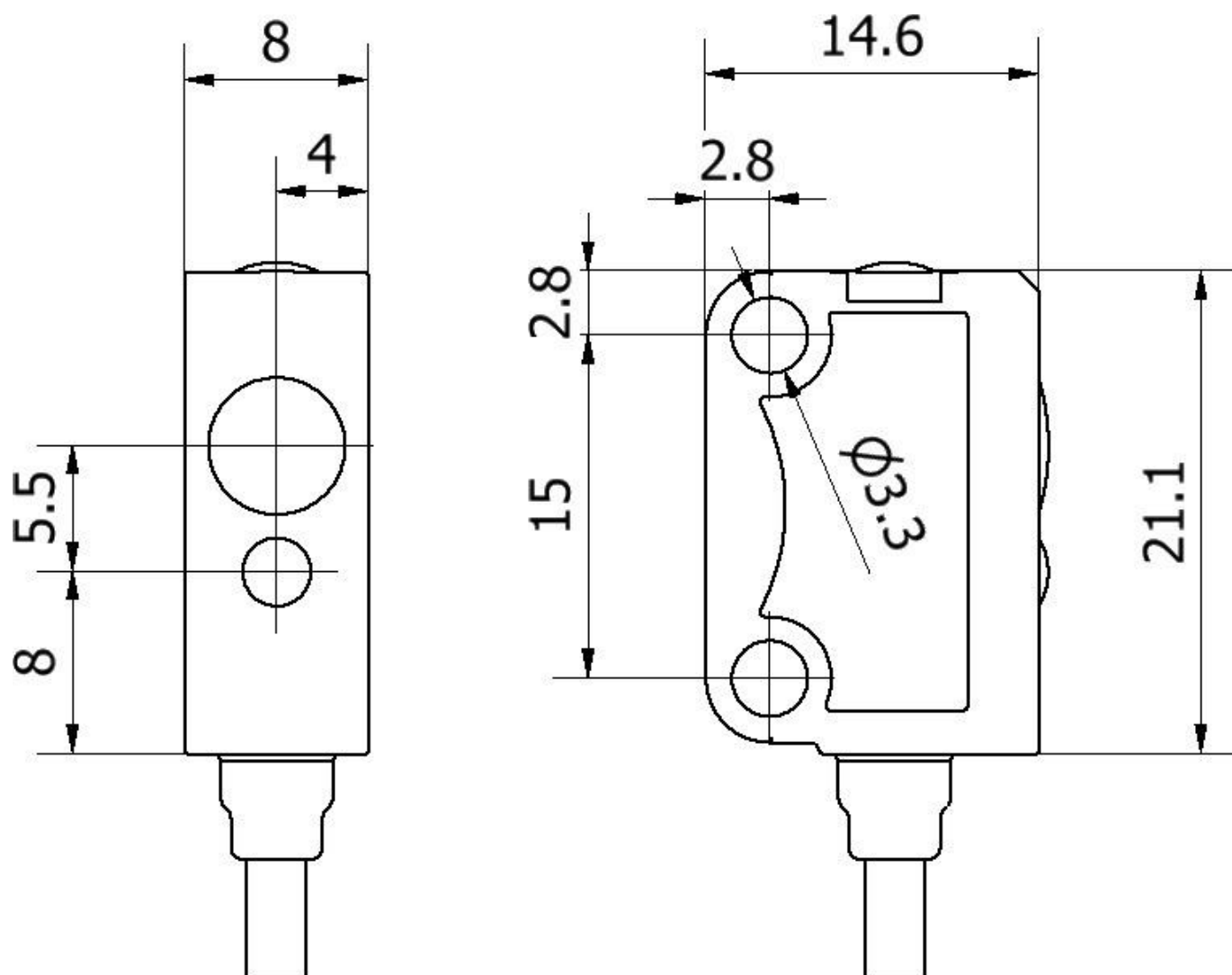
More

IPF Product Group	160 laser sensor
packaging dimensions	91 x 60 x 30 mm
gross weight	22 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

VK200471



Connection cable, 2m, M8 socket 4-pin angular, free cable end, 4x0.34mm², PUR (polyurethane), Ø4.7mm, -30-90°C, IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK500471



Connection cable, 5m, M8 socket 4-pin angular, free cable end 4-pin, 4x0.34mm², PUR (polyurethane), Ø4.7mm, -30-90°C, IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK003071



Cable socket, Angular, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 30V, -40-85°C, M8 Female (socket) 4pin, IP67, Brass

VK003075



Cable socket, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 30V, -40-85°C, M8 Female (socket) 4pin, IP67, Brass

VK03A247



Connection cable, 0.3m, M8 socket 4-pin straight, M8 connector 3-pin straight, 3-core, PUR (polyurethane), suitable for trailing chain and torsion-resistant, oils and cooling lubricants, welding area, silicone-free

VK03C825



Connection cable, 0.3m, M8 socket 4-pin angular, M8 connector 3-pin straight, 3-core, PUR (polyurethane), suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK200371



Connection cable, 2m, M8 Female (socket) 4pin Angular, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 30V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200375



Connection cable, 2m, M8 Female (socket) 4pin Straight, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 30V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

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.