

PS991378

Laser sensors • Through-beam sensors transmitters

Sensor laser, through-beam sensor transmitter, M18x1 122lang, aperture 16x1mm, Sn: 13m, 12-32V DC, M12 plug-in connector 4-pin, IP67, nickel-plated brass+glass, laser diode, red light

including Nut



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 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

Type of electrical connection	Connector M12
Laser power	1 mW
No-load current	50 mA
No-load current, transmitter	50 mA
Number of pins	4
Switching distance	0 - 13000 mm
Reverse polarity protection	Yes
Operating voltage (DC)	12 - 32 V

Mechanical features

Design	Cylinder, screw-thread
Thread length	60 mm
Thread pitch	1 mm
Storage temperature	-20 - 85 °C
Length	122 mm
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	glass
Housing material	Brass
Thread dimension	M18
Ambient temperature	-20 - 50 °C

Optical features

Aperture width	1 mm
Aperture length	16 mm
Laser class	Class 2
Light source	Laser diode, red light
Light beam form	Line
Wavelength of the sensor	670 nm

Other features

Features	with test input
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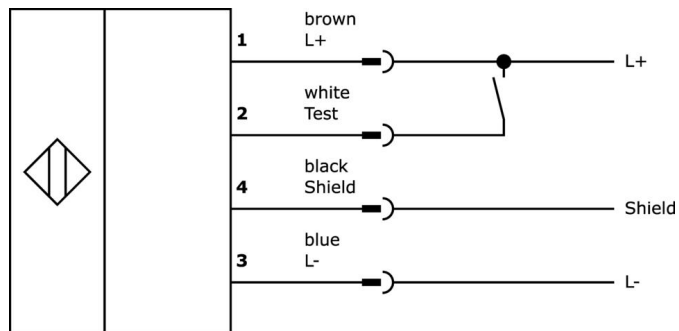
Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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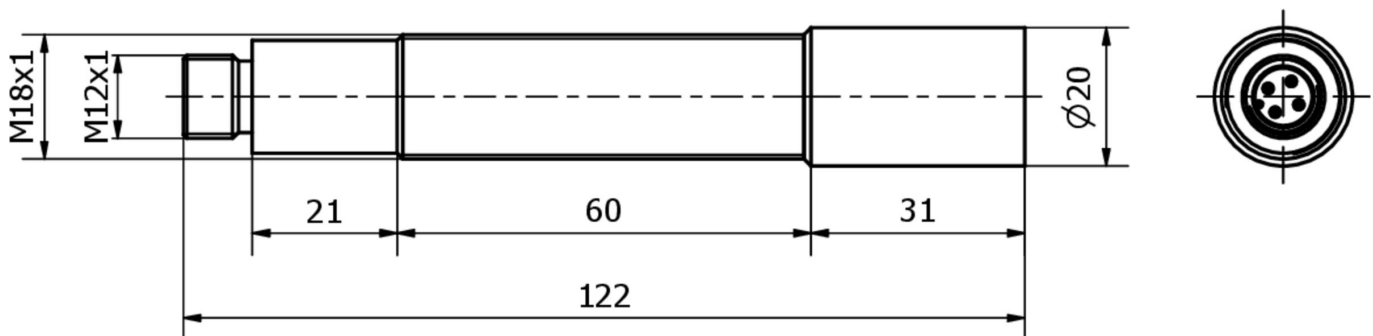
More

IPF Product Group	160 laser sensor
packaging dimensions	123 x 77 x 25 mm
gross weight	112 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY000117



accessories sensor, Fixture kit,
Metal, ball joint

AY000162



Accessories, magnetic, Ø43mm,
neodymium-iron-boron, inside
thread M5, rubber

AY000026



accessories, Hexagon nut, M18x1,
Wrench size 24mm, Brass Nickel-
plated

AY000038



accessories, Hexagon nut, M18x1,
Wrench size 24mm, Stainless steel

AY98A607



accessories sensor, Teflon cap,
Ø16mm 16long, inner thread 12,
Polytetrafluorethylene (PTFE)

AY000159



accessories sensor, Mounting
pipe, Ø12mm 200long, Aluminum
Anodised

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.