

PE991323

Laser sensors • Through-beam sensors receivers

Sensor laser, through-beam sensor receiver, M18x1 90long, Sn: 150m, 12-32V DC, PNP NC, 0-10V, M12 plug-in connector 4-pin, IP67, nickel-plated (n-pltd) brass, 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 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

Type of switching function	Normally closed contact (NC)
Type of analog output	0 - 10V
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	100 mA
Laser power	1 mW
No-load current	40 mA
Number of pins	4
Switching distance	0 - 150000 mm
Switching frequency	1000 Hz
Scanning function	Light-/dark-on mode
Absolute repeat accuracy	0.1 mm
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	90 mm
Surface	nickel-plated
Degree of protection (IP)	IP67
Housing material	Brass
Thread dimension	M18
Ambient temperature	-20 - 50 °C

Optical features

Filter	Interference filter
Light source	Laser diode, red light
Light beam form	Line
Wavelength of the sensor	670 nm

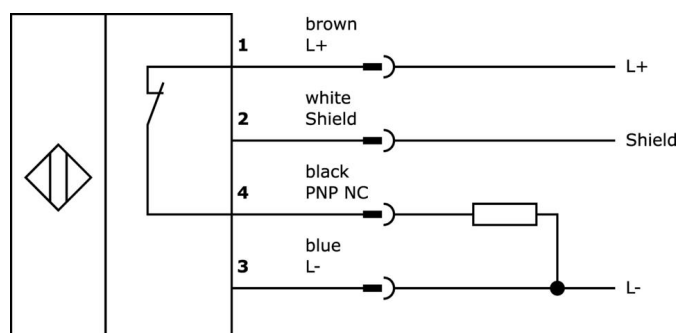
Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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More

IPF Product Group	705 special devices (SI)
packaging dimensions	123 x 77 x 25 mm
gross weight	120 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AY000026



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

AY000038



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

VK000037



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

VK200021



Connection cable, 2m, M12 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200025



Connection cable, 2m, M12 Female (socket) 3pin Straight, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 250V, -30-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

AY000117



accessories sensor, Fixture kit, Metal, ball joint

AY000162



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

AY000159



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

VK003020



Cable socket, angular, self-assembly, screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 socket 4-pin, IP67, PBT

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.