

PS991416

Laser sensors • Through-beam sensors transmitters

sensor laser, Through-beam sensor transmitter, 14x12x55mm, aperture Ø0.5mm, Sn: 1,5m, 12-32V DC, Connector M8 3pin, IP67, Brass Nickel-plated, Laser diode, red light



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
Setting procedure	other
Laser power	1mW
No-load current	60mA
Number of pins	3
Switching distance	0 - 1500mm
Switching frequency	1000Hz
Absolute repeat accuracy	0.005mm
Operating voltage (DC)	12 - 32V

Mechanical features

Design	Cuboid
Aperture diameter	0.5mm
Width	55mm
Height	14mm
Storage temperature	-20 - 85°C
Length	12mm
Surface	nickel-plated
Degree of protection (IP)	IP67
Volume	Small
Housing material	Brass
Ambient temperature	-20 - 50°C

Optical features

Filter	Interference filter
Laser class	Class 1
Light source	Laser diode, red light
Light beam form	Point
Wavelength of the sensor	670nm

Other features

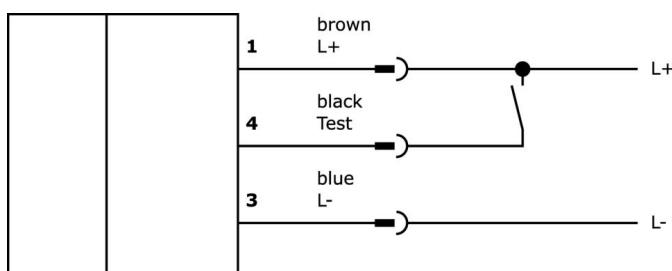
Scope of delivery	Transmitter
Ambient temperature	-20 - 50°C
Version	Through-beam sensor transmitter

Classification

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

More

IPF Product Group	705 special devices (SI)
packaging dimensions	123 x 77 x 25 mm
gross weight	70 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection**Installation**

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

Disposal**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.