

PS991322

LASER SENSORS • THROUGH-BEAM SENSORS TRANSMITTERS

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.



MECHANICAL DATA

Ambient temperature	-20 °C ... 50 °C
Degree of protection (IP)	IP67
Housing coating	Nickel-plated
Housing design	Cuboid
Housing material	Brass
Reflector included in the scope of delivery	No
Sensor height	64 mm
Sensor length	14 mm
Sensor width	12 mm
Storage temperature	85 °C
Storage temperature	-20 °C

ELECTRICAL DATA

IO-Link compatible	No
Laser power	1 mW
Max. output current	100 mA
Measuring range	150 m
No-load current	110 mA
Number of pins	3
Operating voltage	12 V ... 32 V
Rated switching distance	150000 mm
Relative repeat accuracy	10 µm
Setting procedure	Other
Switching frequency	1000 Hz
Type of electrical connection	Connector M8
Type of input voltage	DC
Voltage type	DC

ELECTRICAL DATA

With time function

No

OPTICAL DATA

Filter

Interference filter

Laser class

2

Laser protection class

Class 1

Light beam form

Line

Light source

Laser diode, red light

Wavelength of the sensor

670 nm

OTHER DATA

Scope of delivery of the one-way system

Transmitter

DIMENSIONAL DRAWING**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!