

PSSI0134

LASER SENSORS • LINE 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 | -10 °C ... 50 °C |
| Degree of protection (IP) | IP54 |
| Housing coating | Anodised |
| Housing design | Cuboid |
| Housing material | Aluminium |
| Reflector included in the scope of delivery | No |
| Sensor height | 105 mm |
| Sensor length | 30 mm |
| Sensor width | 125 mm |
| Storage temperature | 85 °C |
| Storage temperature | -20 °C |

ELECTRICAL DATA

| | |
|---|---------------------|
| Input (TeachIn) | Yes |
| IO-Link compatible | No |
| Laser power | 0.4 mW |
| Max. output current | 100 mA |
| Measuring range | 2 m |
| No-load current | 200 mA |
| Number of pins of the communication interface, transmitter + receiver | 3 |
| Operating voltage | 15 V ... 30 V |
| Rated switching distance | 2000 mm |
| Scanning function | Light-/dark-on mode |
| Setting procedure | Parameterization |
| Switching frequency | 500 Hz |
| Type of communication interface, transmitter + receiver | Connector M9 |
| Type of input voltage | DC |

ELECTRICAL DATA

| | |
|--|-----------------|
| Type of plug-in contact, communication interface | Female (socket) |
| Voltage type | DC |
| With time function | No |

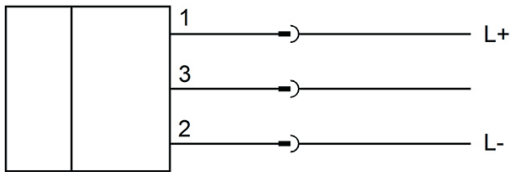
OPTICAL DATA

| | |
|--------------------------|------------------------|
| Aperture length | 48 mm |
| Filter | Interference filter |
| Laser class | 1 |
| Laser protection class | Class 1 |
| Light beam form | Line |
| Light source | Laser diode, red light |
| Line sensor | Yes |
| Resolution | 16 µm |
| Wavelength of the sensor | 670 nm |

OTHER DATA

| | |
|---|-------------|
| Scope of delivery of the one-way system | Transmitter |
|---|-------------|

CONNECTION



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!