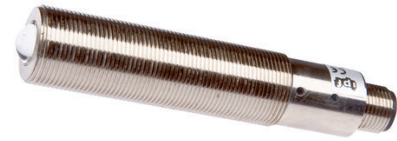


PE180121

LASER SENSORS • THROUGH-BEAM SENSORS RECEIVERS

sensor laser, Through-beam sensor receiver, M18x1 90long, aperture Ø1mm, Sn: 5m, 12-32V DC, PNP/NPN Push-pull, 0-10V, Connector M12 4pin, IP67, Brass Nickel-plated+Plastic, Polarity free red light



MECHANICAL FEATURES

| | |
|-----------------------------|------------------------------|
| Ambient temperature | -20 °C ... 50 °C |
| Aperture diameter | 1 mm |
| Degree of protection (IP) | IP67 |
| Design | Cylinder, screw-thread |
| Heavy soiling | + |
| Housing coating | Nickel-plated |
| Housing material | Brass |
| Material of optical surface | Plastic |
| Sensor length | 90 mm |
| Storage temperature (MAX) | 85 °C |
| Thread length | 60 mm |
| Thread pitch | 1 mm |
| Thread size, metric | 18 |
| Version | Through-beam sensor receiver |

ELECTRICAL FEATURES

| | |
|-------------------------------|---------------------|
| Connection to amplifier | - |
| Measuring range | 5 m |
| No-load current | 30 mA |
| No-load current, receiver | 30 mA |
| Number of pins | 4 |
| Operating voltage | 12 V ... 32 V |
| Rated switching current | 100 mA |
| Rated switching distance | 5000 mm |
| Relative repeat accuracy | 20 µm |
| Reverse polarity protection | + |
| Scanning function | Light-/dark-on mode |
| Short-circuit protection | + |
| Suitable for safety functions | - |
| Switching frequency | 5000 Hz |
| Type of analog output | 0 V ... 10 V |
| Type of electrical connection | Connector M12 |
| Type of input voltage | DC |

ELECTRICAL FEATURES

| | |
|----------------------------|-----------|
| Type of switching function | Push-pull |
| Type of switching output | PNP/NPN |
| Voltage drop | 2 V |
| Voltage type | DC |

OPTICAL FEATURES

| | |
|--------------------------|-------------------------|
| Light source | Polarity free red light |
| Wavelength of the sensor | 670 nm |
| Resolution | 20 µm |
| Light beam form | Point |

OTHER FEATURES

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

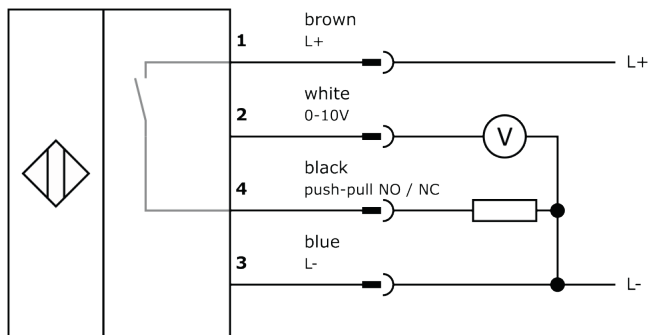
Other

| | |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight | 0.1kg |
| Tariff code | 85365019 |

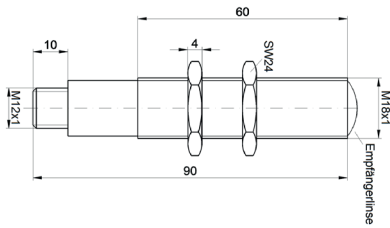
Classification

| | |
|-------------------|----------|
| ipf product group | 160 |
| eClass 8.0 | 27270901 |
| eClass 9.0 | 27270901 |
| eClass 9.1 | 27270901 |
| ETIM-5.0 | EC002716 |
| ETIM-6.0 | EC002716 |
| ETIM-7.0 | EC002716 |

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. Never use these devices in applications where the safety of a person depends on their functionality. LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.

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