

PT160070

LASER SENSORS • DISTANCE MEASUREMENT

sensor laser, diffuse-reflection sensor, 37x34x12mm, Sn:16-26mm, Triangulation, 12-28V DC, 4-20mA, Connector M8 4pin, IP67, Zinc die-cast+Glass, 0.5kHz, Laser diode, red light, Point, Teach-In



MECHANICAL FEATURES

| | |
|-----------------------------|----------------|
| Ambient temperature | 0 °C ... 50 °C |
| Degree of protection (IP) | IP67 |
| Design | Cuboid |
| Housing material | Zinc die-cast |
| Material of optical surface | Glass |
| Sensor height | 37 mm |
| Sensor length | 34.5 mm |
| Sensor width | 12.4 mm |
| Volume | Small |

ELECTRICAL FEATURES

| | |
|---|-------------------|
| Absolute linearity deviation | 0.02 mm |
| Decay time | 0.9 ms |
| Measuring method for optical distance measurement | Triangulation |
| Measuring range length | 16 mm ... 26 mm |
| Number of pins | 4 |
| Range | 26 mm |
| Rated switching current | 100 mA |
| Response time | 0.9 ms |
| Response/decay time | 0.9 ms |
| Reverse polarity protection | + |
| Scanning principle | Reflection sensor |
| Setting procedure | Teach-In |
| Short-circuit protection | + |
| Supply voltage | 12 V ... 28 V |
| Switching frequency | 500 Hz |
| Type of analog output | 4 mA ... 20 mA |
| Type of electrical connection | Connector M8 |
| Voltage type | DC |
| With LED display | + |

OPTICAL FEATURES

| | |
|--------------|------------------------|
| Light source | Laser diode, red light |
|--------------|------------------------|

OPTICAL FEATURES

| | |
|--------------------------|----------------------|
| Wavelength of the sensor | 650 nm |
| Resolution | 0 μ m |
| Light beam form | Point |
| Light spot, laser focus | 0.03 mm ² |
| Light spot range (MIN) | 0.13 mm ² |
| With background lighting | + |
| Laser class | Class 2 |

OTHER FEATURES

| | |
|------------------------------|--------|
| Relative linearity deviation | 0.02 % |
|------------------------------|--------|

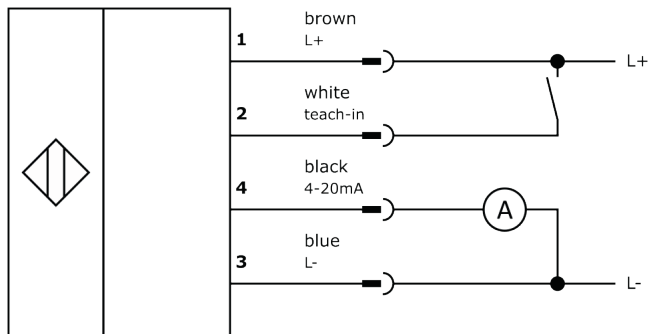
Other

| | |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight | 0.06kg |
| Tariff code | 85365019 |

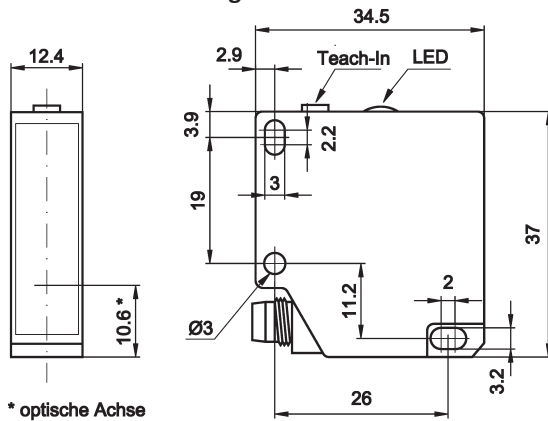
Classification

| | |
|-------------------|----------|
| ipf product group | 169 |
| eClass 8.0 | 27270801 |
| eClass 9.0 | 27270801 |
| eClass 9.1 | 27270801 |
| ETIM-5.0 | EC001825 |
| ETIM-6.0 | EC001825 |
| ETIM-7.0 | EC001825 |

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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