

OS106003

High performance light barriers • Transmitter unamplified

High-power photoelectric sensor transmitter, Ø10mm 45long, normal power (40mW), 12°, connection to amplifier, cable tail 15m PVC, IP67, plastic+plastic



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

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|-------------------------------|-------|
| Type of electrical connection | Cable |
| Power | 0.04W |
| Line diameter | 3.8mm |
| Connection to amplifier | Yes |

Mechanical features

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|--------------------------------|---------------------|
| Number of cores | 2 |
| Conductor cross-section | 0.34mm ² |
| Design | Cylinder plain |
| Diameter | 10mm |
| Cable length | 15m |
| Storage temperature | -40 - 80°C |
| Length | 45mm |
| Shock resistance | 30g |
| Degree of protection (IP) | IP67 |
| Vibration resistance | 55Hz |
| Active area material of sensor | Plastic |
| Housing material | Plastic |
| Material of cable sheath | Plastic (PVC) |
| Ambient temperature | -25 - 60°C |

Optical features

| | |
|--------------------------|---------------------|
| Light source | Infrared light |
| Light beam form | Point |
| Transmitting power | Normal power (40mW) |
| Wavelength of the sensor | 880nm |
| Angle of beam spread | 12° |

Other features

| | |
|-------------------|---------------------------------|
| Scope of delivery | Transmitter |
| Version | Through-beam sensor transmitter |

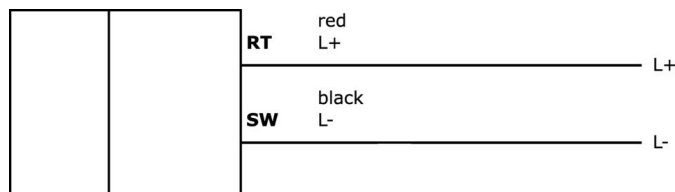
Classification

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

More

| | |
|-----------------------|--|
| IPF Product Group | 101 high performance through-beam sensors and amplifiers |
| packaging dimensions | 180 x 102 x 50 mm |
| gross weight | 350 g |
| Customs tariff number | 85365019 |
| WEEE number | 40951076 |
| 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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing

