

OY410523

Optical sensors • Light curtains

light curtain, 180x20x40mm, field height 155, resolution 2mm, Sn: 0.15-0.8m, 22-26V DC, PNP/NPN Anticoincidence, Connector M12 4pin/4pin, IP65, Aluminum+PMMA



The multi-function light barriers are through-beam sensors where multiple beams are integrated. In case of interruption of only one beam, the switching output of the receiver changes its state. The devices are used where standard through-beam sensors with only one beam are not sufficient. There are devices with beam spacing of 20, 40, 60 or 120mm and different heights available. An integrated fuzzy logic controls the transmitting power automatically.

Electrical features

| | |
|-------------------------------|---------------|
| Resolution | 2mm |
| Type of switching function | Exclusive-OR |
| Type of electrical connection | Connector M12 |
| Type of switching output | PNP/NPN |
| Rated switching current | 80mA |
| Short-circuit protection | Yes |
| No-load current, receiver | 60mA |
| No-load current, transmitter | 60mA |
| Number of pins, receiver | 4 |
| Number of pins, transmitter | 4 |
| Reaction time | 1.2ms |
| Switching distance | 150 - 800mm |
| Reverse polarity protection | Yes |
| Operating voltage (DC) | 21,6 - 26,4V |

Mechanical features

| | |
|-----------------------------|-----------|
| Width | 40mm |
| Sensor width | 40mm |
| Field height | 155mm |
| Height | 180mm |
| Length | 20.5mm |
| Degree of protection (IP) | IP65 |
| Cover material | Plastic |
| Material of optical surface | PMMA |
| Housing material | Aluminum |
| Ambient temperature | -5 - 50°C |

Other features

| | |
|------------------------------------|--------------------------|
| Explosion safety category for gas | none |
| Explosion safety category for dust | none |
| Scope of delivery | Transmitter and receiver |
| Ambient temperature | -5 - 50°C |

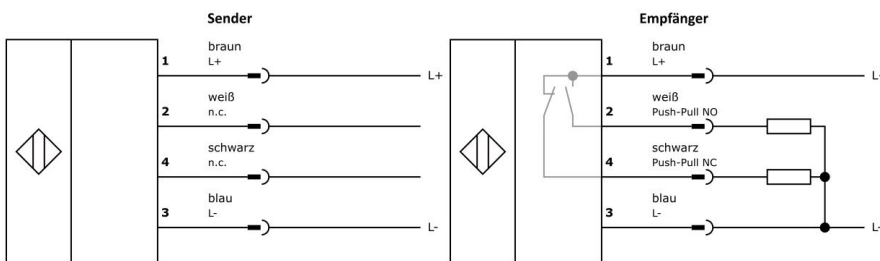
Classification

| | |
|------------|------------------------|
| ETIM 8 | EC002549 Light curtain |
| eClass 7.0 | 27270910 |
| eClass 7.1 | 27270910 |
| eClass 8.0 | 27270910 |
| eClass 9.0 | 27270910 |
| eClass 9.1 | 27270910 |

More

| | |
|-----------------------|---------------------|
| IPF Product Group | 100 optical sensors |
| packaging dimensions | 270 x 70 x 70 mm |
| gross weight | 374 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

