

PGKB0570

LASER SENSORS • FORKED LIGHT BARRIER

sensor laser, fork, 144x12x90mm, fork width 120mm, 10-30V DC, 1x PNP/NPN NC/NO, Connector M8 3pin, IP67, Zinc die-cast+Glass, Red light, 5kHz pulsed, Manual adjustment



MECHANICAL FEATURES

| | |
|-----------------------------|------------------|
| Ambient temperature | -25 °C ... 60 °C |
| Degree of protection (IP) | IP67 |
| Design | Cuboid |
| Diameter detection | - |
| Fork depth | 60 mm |
| Fork light barrier design | Furcate |
| Fork width | 120 mm |
| Housing material | Zinc die-cast |
| Installation bracket | - |
| Material of optical surface | Glass |
| Sensor height | 144 mm |
| Sensor length | 12 mm |
| Sensor width | 90 mm |

ELECTRICAL FEATURES

| | |
|------------------------------|---------------------|
| Analog output 0 V ... 10 V | - |
| Analog output 4 mA ... 20 mA | - |
| Connection to amplifier | - |
| Decay time | 0.1 ms |
| Dynamic switching output | - |
| Equipment protection class | Protection class 3 |
| No-load current | 30 mA |
| Number of pins | 3 |
| Number of switching outputs | 1 |
| Operating voltage | 10 V ... 30 V |
| Rated switching current | 100 mA |
| Relative repeat accuracy | 0.01 mm |
| Repeatability +/- | 10 µm |
| Response time | 0.1 ms |
| Reverse polarity protection | + |
| Scanning function | Light-/dark-on mode |
| Setting procedure | Manual adjustment |
| Short-circuit protection | + |

ELECTRICAL FEATURES

| | |
|--------------------------------------|---|
| Switching frequency | 5000 Hz |
| Type of electrical connection | Connector M8 |
| Type of switching function | Normally closed contact/normally open contact |
| Type of switching output | PNP/NPN |
| Type of the forked light barrier | Standard |
| Voltage drop | 2 V |
| Voltage type | DC |
| With communication interface, analog | - |
| With communication interface, RS-232 | - |
| With other analog output | - |
| With time function | - |

OPTICAL FEATURES

| | |
|---------------------|---------|
| Min. object size | 0.1 mm |
| Resolution | 100 µm |
| Light beam form | Point |
| Laser class | Class 1 |
| Pulsed light source | + |

OTHER FEATURES

| | |
|--------------------|---|
| Feeding technology | + |
|--------------------|---|

Other

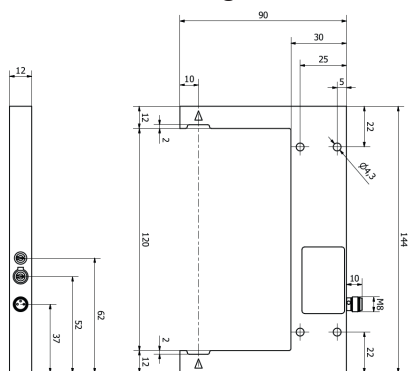
| | |
|----------------------|--------------------------|
| Packaging dimensions | 130mm x 35.0mm x 165.0mm |
| Shipping weight | |
| Tariff code | 85365019 |

Classification

| | |
|-------------------|----------|
| ipf product group | 170 |
| eClass 8.0 | 27270909 |
| eClass 9.0 | 27270909 |
| eClass 9.1 | 27270909 |
| ETIM-5.0 | EC002720 |
| ETIM-6.0 | EC002720 |
| ETIM-7.0 | EC002720 |

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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