

**PS180020**
**LASER SENSORS • THROUGH-BEAM SENSORS TRANSMITTERS**

sensor laser, Through-beam sensor transmitter, M18x1 90long, aperture Ø1mm, Sn: 5m, 12-32V DC, Connector M12 4pin, IP67, Brass Nickel-plated+Plastic PK, Laser diode, red light


**MECHANICAL FEATURES**

Ambient temperature	-20 °C ... 50 °C
Aperture diameter	1 mm
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing coating	Nickel-plated
Housing material	Brass
Material of optical surface	Plastic PK
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 transmitter

**ELECTRICAL FEATURES**

Connection to amplifier	-
Function test	+
Laser power	1 mW
Measuring range	5 m
No-load current	50 mA
No-load current, transmitter	50 mA
Number of pins	4
Operating voltage	12 V ... 32 V
Reverse polarity protection	+
Suitable for safety functions	-
Type of electrical connection	Connector M12
Type of input voltage	DC
Voltage type	DC

**OPTICAL FEATURES**

Light source	Laser diode, red light
Light spot	0.79 mm <sup>2</sup>
Wavelength of the sensor	670 nm

## OPTICAL FEATURES

Light beam form

Point

Laser class

EV006626

## OTHER FEATURES

Scope of delivery of the one-way system

Transmitter

### Other

Packaging dimensions

77.0mm x 25.0mm x 123.0mm

Shipping weight

0.09kg

Tariff code

85365019

### Classification

ipf product group

160

eClass 8.0

27270901

eClass 9.0

27270901

eClass 9.1

27270901

ETIM-5.0

EC002716

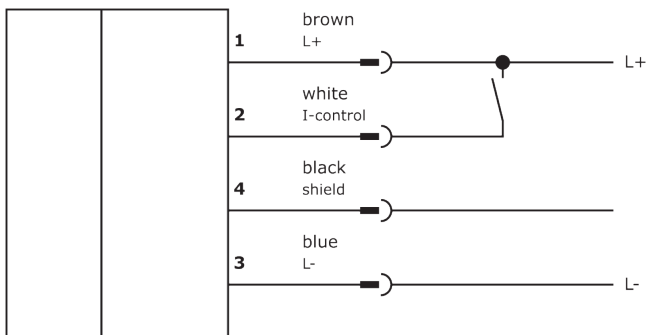
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EC002716

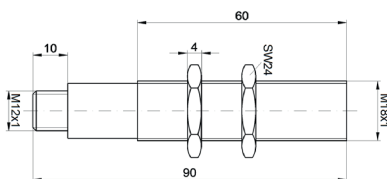
ETIM-7.0

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.