

PE180120
LASER SENSORS • THROUGH-BEAM SENSORS RECEIVERS

sensor laser, Through-beam sensor receiver, M18x190long, aperture Ø1mm, Sn: 5m, 12-32V DC, PNP/NPN Push-pull, 0-10V, Connector M12 4pin, IP67, Brass Nickel-plated+Plastic, Polarity free 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
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 receiver

ELECTRICAL FEATURES

Connection to amplifier	-
Measuring range	5 m
No-load current	30 mA
No-load current, receiver	30 mA
Number of pins	4
Operating voltage	12 V ... 32 V
Rated switching current	100 mA
Rated switching distance	5000 mm
Relative repeat accuracy	20 µm
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	5000 Hz
Type of analog output	0 V ... 10 V
Type of electrical connection	Connector M12
Type of input voltage	DC
Type of switching function	Push-pull

ELECTRICAL FEATURES

Type of switching output	PNP/NPN
Voltage drop	2 V
Voltage type	DC

OPTICAL FEATURES

Light source	Polarity free red light
Wavelength of the sensor	670 nm
Resolution	20 µm
Light beam form	Point

OTHER FEATURES

Scope of delivery of the one-way system	Receiver
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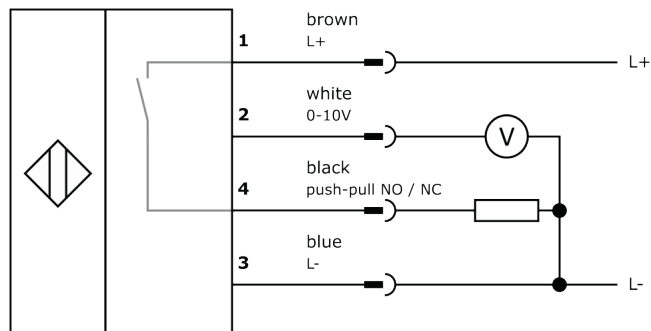
Other

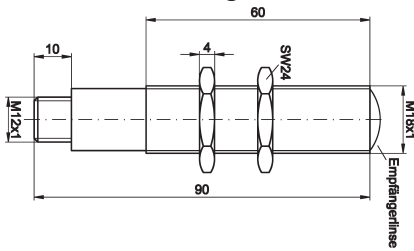
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.1kg
Tariff code	85365019

Classification

ipf product group	160
eClass 8.0	27270901
eClass 9.0	27270901
eClass 9.1	27270901
ETIM-5.0	EC002716
ETIM-6.0	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.