

PE18F001

Laser sensors • Through-beam sensors receivers

Sensor laser, through-beam sensor receiver, M18x1 90long, aperture Ø3mm, Sn: 30m, 24V diagnostic coverage, PNP/NPN, 0-10V, M12 plug connector 4-pin, IP67, brass nickel-plated (n-pltd) + glass

including 2x Nut



Optical sensors work contactless. They detect objects, regardless of their properties (e.g. shape, color, surface structure, material). The basic mode of operation is based on the transmitter and receiver of light. There are three different versions: 1. the through-beam sensor consists of two separate devices, a transmitter and a receiver, which are aligned with each other. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. in the reflex light barrier, the transmitter and receiver are located in one device. The transmitted light beam is reflected onto the receiver by a reflector to be mounted opposite. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. the diffuse reflection sensor has a transmitter and receiver in one device. The transmitted light beam is reflected by the object to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

Electrical features

Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of analog output	0 - 10V
Type of electrical connection	Connector M12
Type of switching output	PNP/NPN
Rated switching current	100mA
No-load current	40mA
No-load current, receiver	40mA
Number of pins	4
Switching distance	0 - 30000mm
Switching frequency	5000Hz
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Operating voltage (DC)	21,6 - 26,4V

Mechanical features

Design	Cylinder, screw-thread
Aperture diameter	3mm
Thread length	60mm
Thread pitch	1mm
Storage temperature	-20 - 85°C
Length	90mm
Degree of protection (IP)	IP67
Active area material of sensor	glass
Housing material	Nickel-plated brass
Thread dimension	M18
Ambient temperature	-20 - 50°C

Other features

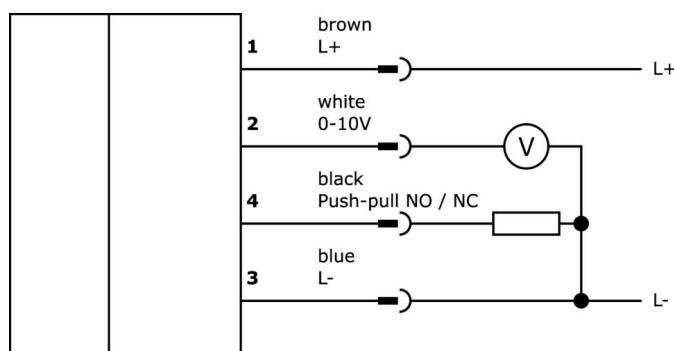
Ambient temperature	-20 - 50°C
Version	Through-beam sensor receiver

Classification

ETIM 8

More

IPF Product Group	160 laser sensor
packaging dimensions	125 x 70 x 40 mm
gross weight	119 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
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