

PEQ80376

Laser sensors • Through-beam sensors receivers

Sensor laser, through-beam sensor receiver, 26x15x8mm, Sn: 4000mm, 10-30V
diagnostic coverage, 1x PNP NC/NO, M8 connector 4-pin 0.2m PUR (polyurethane),
IP67, PUR (polyurethane)+PMMA, 4kHz, teach-in



Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists of two separate devices, a transmitter and a receiver that are aligned with one another. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. With the retro-reflective sensor, the transmitter and receiver are located in one device. The emitted light beam is reflected back to the receiver by a reflector that is to be mounted opposite the device. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. With the diffuse reflection sensor, the transmitter and receiver are in one device. The emitted light beam is reflected by the object that is to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

Electrical features

Response/decay time	0.125ms
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	50mA
Short-circuit protection	Yes
No-load current	12mA
No-load current, receiver	12mA
Number of pins	4
Switching distance	0 - 4000mm
Switching frequency	4000Hz
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.125ms
Operating voltage (DC)	12 - 32V

Mechanical features

Number of cores	4
Design	Cuboid
Width	8mm
Height	26.7mm
Storage temperature	-20 - 85°C
Length	14.6mm
Degree of protection (IP)	IP67
Volume	Small
Active area material of sensor	Plastic (PMMA)
Housing material	PUR (Polyurethane)
Material of cable sheath	Plastic (PUR)
Ambient temperature	-20 - 50°C

Other features

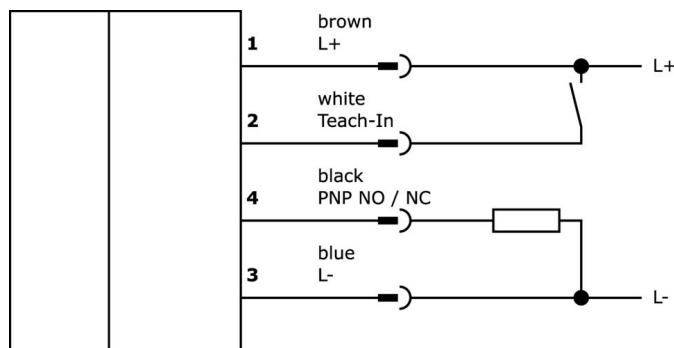
Scope of delivery	Receiver
Ambient temperature	-20 - 50°C
Version	Through-beam sensor receiver

Classification

ETIM 8	EC002716 Through-beam photoelectric sensor
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More

IPF Product Group	160 laser sensor
packaging dimensions	91 x 60 x 30 mm
gross weight	22 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
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