

AbN automation

PE130176

Laser sensors • Through-beam sensors receivers

sensor laser, Through-beam sensor receiver, 64x14x12mm, aperture Ø0.7mm, Sn: 1m, 12-32V DC, PNP/NPN Push-pull, Connector M8 3pin, IP67, Aluminum Anodised+Plastic, Polarity free red light



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

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Display	LED display
Resolution	0.5mm
Type of switching function	Schließer (NO bei PNP) Öffner (NC bei NPN)
Type of electrical connection	Connector M8
Type of switching output	Push-pull
Rated switching current	100mA
Short-circuit protection	Yes
No-load current	30mA
No-load current, receiver	30mA
Number of pins	3
Switching distance	0 - 1000mm
Switching frequency	1000Hz
Voltage drop	2V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Absolute repeat accuracy	0.007mm
Operating voltage (DC)	12 - 32V



Mechanical features

Design	Cuboid
Aperture diameter	0.7mm
Width	12mm
Height	64mm
Storage temperature	85°C
Length	14mm
Surface	teflon coated
Surface Degree of protection (IP)	teflon coated IP67
Degree of protection (IP)	IP67
Degree of protection (IP) Volume	IP67 Small

Optical features

Filter	Interference filter
Light source	Polarity free red light
Light beam form	Point
Wavelength of the sensor	670nm

Other features

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

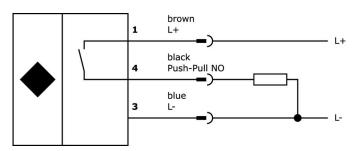
Classification

ETIM 8 EC002716 Through-beam photoelectric sensor
Eco2710 Through-bearn photoelectric sensor

More

IPF Product Group	160 laser sensor
packaging dimensions	123 x 77 x 25 mm
gross weight	43 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection





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Installation Disposal



Mounting / installation may only be carried out by a qualified electrician!



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 55 48

