

PT66A610

Laser sensors • Diffuse reflection sensors with background suppression

sensor laser, diffuse-reflection sensor, 65x50x20mm, Sn: 200-1500, 12-28V DC, 2x PNP NC/NO, Connector M12 5pin, IP67, Zinc die-cast+Glass, Laser diode, red light, Point, 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	6ms
Number of switching outputs	2
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	100mA
Setting procedure	Teach-In
Short-circuit protection	Yes
Laser power	1mW
No-load current	100mA
Number of pins	5
Switching distance	200 - 1500mm
Voltage drop	5V
Reverse polarity protection	Yes
Decay time	18ms
Operating voltage (DC)	12 - 28V

Mechanical features

Design	Cuboid
Width	20.4mm
Height	65mm
Length	50mm
Degree of protection (IP)	IP67
Volume	Medium
Active area material of sensor	glass
Housing material	Zinc die-cast
Ambient temperature	0 - 50°C

Optical features

Laser class	Class 2
Light source	Laser diode, red light
Light beam form	Point
Wavelength of the sensor	675nm
Light spot diameter at focal point	1mm

Other features

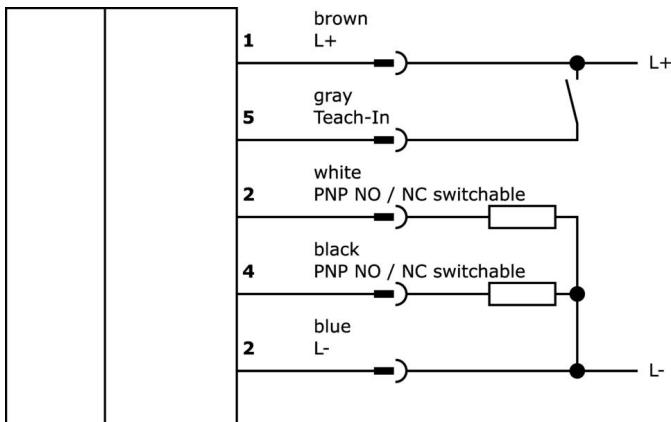
Operational mode	Background suppression
Reference medium / object	Material with 90% reflectivity
Ambient temperature	0 - 50°C

Classification

ETIM 8	EC002719 Photoelectric proximity switch with background suppression
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More

IPF Product Group	160 laser sensor
packaging dimensions	160 x 99 x 60 mm
gross weight	220 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.