

OR98C009

Optical sensors • Retro-reflective sensors

Sensor Optical, reflex, 62x35x18mm, red light polarized, dot, Sn: 100-5000, 12-24V diagnostic coverage, relay contact change-over contact (NO/NC), M12 plug connector 4-pin, IP66, plastic PC+acrylic glass, With polarizing filter



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	10ms
Display	LED display
Type of switching function	Change-over contact (NO/NC)
Type of electrical connection	Connector M12
Type of switching output	Relay contact
Short-circuit protection	No
Number of pins	4
Switching distance	100 - 5000mm
Switching frequency	500Hz
Scanning function	Light-/dark-on mode
Reverse polarity protection	No
Decay time	10ms
Absolute repeat accuracy	0.2mm
Operating voltage (DC)	12 - 24V
With polarizing filter	Yes

Mechanical features

Design	Cuboid
Width	18mm
Height	62mm
Length	35mm
Degree of protection (IP)	IP66
Volume	Medium
Active area material of sensor	acrylic glass
Housing material	Plastic PC
Ambient temperature	-25 - 55°C

Optical features

Light source	Polarized red light
Light beam form	Point
Wavelength of the sensor	660nm

Other features

Reference medium / object	AO000007
Ambient temperature	-25 - 55°C

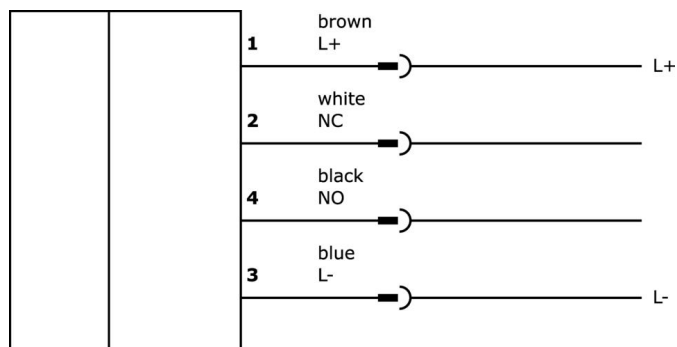
Classification

ETIM 8	EC002717 Retro-reflective sensor
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More

IPF Product Group	100 optical sensors
packaging dimensions	125 x 70 x 40 mm
gross weight	130 g
Customs tariff number	85365019
WEEE number	40951076
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.