

PT98E294

Laser sensors • Distance measurement

Sensor laser, diffuse reflection sensor, 50x239x96mm, Sn:200-30000mm, phase comparison measurement, 10-30V DC, PNP, 4-20mA, Binder 723 plug connector 12-pin, IP65, aluminum anodized/anodized, RS-232, laser diode, red light



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

Type of analog output	4 - 20mA
Type of electrical connection	Connector Binder723
Type of switching output	PNP
No-load current	100 mA
Number of pins	12
Measurement principle	Phase comparison measurement
Supported communication interface	RS232
Operating voltage (DC)	10 - 30 V
Measuring range	200 - 30000 mm

Mechanical features

Design	Round
Width	96 mm
Height	50 mm
Storage temperature	-20 - 70 °C
Length	239 mm
Surface	Anodized
Degree of protection (IP)	IP65
Housing material	Aluminum
Ambient temperature	-10 - 60 °C

Optical features

Laser class	Class 2
Light source	Laser diode, red light
Wavelength of the sensor	650 nm

Other features

Reference medium / object	Material with 90% reflectivity
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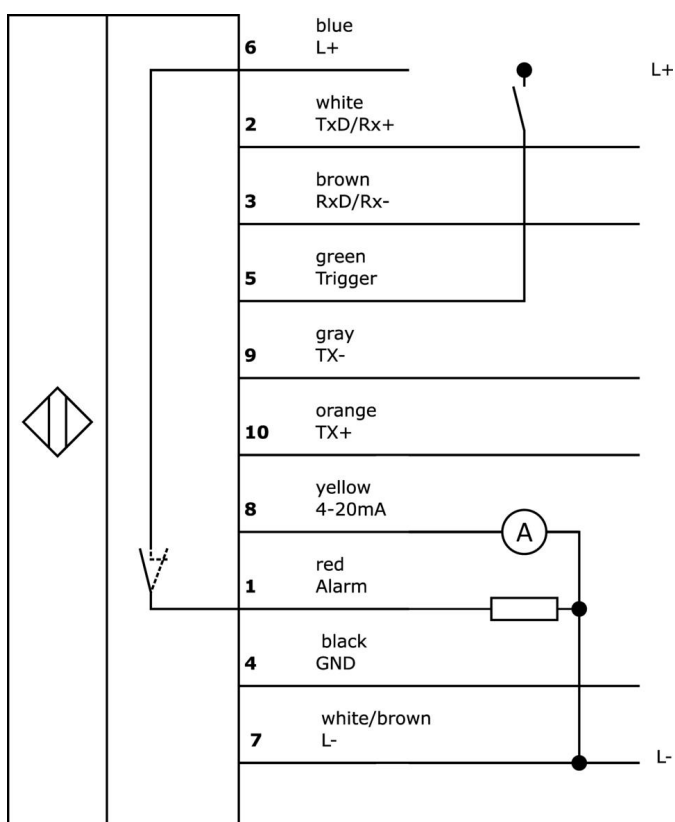
Classification

ETIM 8	EC001825 Optical distance sensor
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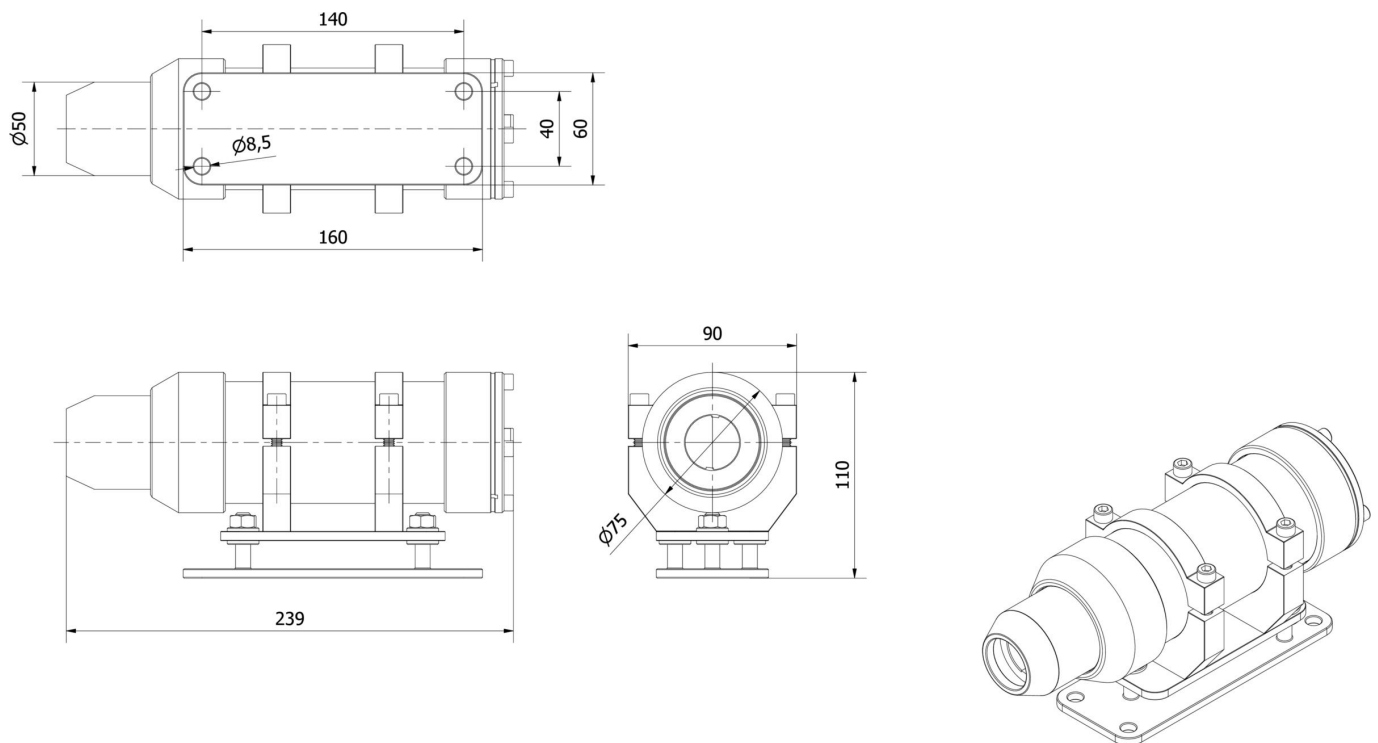
More

IPF Product Group	169 laser diffuse reflection sensors (analog)
packaging dimensions	271 x 135 x 127 mm
gross weight	2105 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

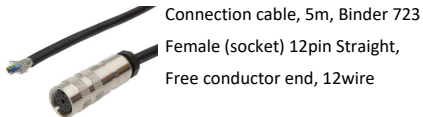


Dimensional drawing



Extract accessories program

VK50C020



Connection cable, 5m, Binder 723
Female (socket) 12pin Straight,
Free conductor end, 12wire

VKA0C368



Connection cable, 10m, Female
(socket) 12pin Straight, Free
conductor end, 12wire

NG400501



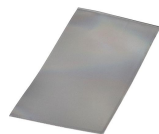
DC power supply, 1-phase,
125x114x40mm, 24-28V, 5A, 90-
264V AC 50Hz, 90-264V AC 60Hz,
127-370V DC, screw connection,
IP20, aluminum, stabilized, pulsed
output voltage

VY000004



DC power supply, sensor tester,
120x26x72mm, 18V, 0.04A, Spring
clamp connection 4pin, IP20,
Plastic

AP000027



accessories laser, reflector,
100x50mm, Self-adhesive, -40-
70°C, Plastic+Plastic, Polarized,
Punchable and cuttable

AP000035



accessories laser, reflector,
6x59x20mm, Screw hole, 2xØ4.
5mm, -40-70°C, IP67,
PMMA+PMMA, Polarized,
Microprisms

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3
ElektroG: 40951076

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.