

PSK00046

LASER SENSORS • LINE SENSORS TRANSMITTERS

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.



MECHANICAL FEATURES

Ambient temperature	-10 °C ... 50 °C
Degree of protection (IP)	IP54
Field height	98 mm
Housing coating	Anodized
Housing design	Cuboid
Housing material	Aluminum
Reflector included in the scope of delivery	-
Sensor height	145 mm
Sensor length	30 mm
Sensor width	170 mm
Storage temperature	85 °C
Storage temperature	-20 °C
Version	IV001917

ELECTRICAL FEATURES

Connection to amplifier	-
Laser power	0.4 mW
Measuring range	2 m
No-load current	200 mA
Number of pins	4
Number of pins of the communication interface, transmitter + receiver	4
Operating voltage	21.6 V ... 26.4 V
Setting procedure	Parameterization
Suitable for safety functions	-
Type of communication interface, transmitter + receiver	Connector M9
Type of electrical connection	Connector M9
Type of input voltage	DC
Type of plug-in contact, communication interface	Female (socket)
Voltage type	DC

OPTICAL FEATURES

Laser class	1
Laser protection class	Class 1

OPTICAL FEATURES

Light source	Laser diode, red light
Wavelength of the sensor	670 nm
Light beam form	Line
Filter	Interference filter
Aperture length	98 mm
Line sensor	+

OTHER FEATURES

Scope of delivery of the one-way system	Transmitter
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Other

Packaging dimensions	230mm x 61.0mm x 290mm
Shipping weight	
Tariff code	85365019

Classification

ipf product group	165
eClass 8.0	27270901
eClass 9.0	27270901
eClass 9.1	27270901
ETIM-5.0	EC002716
ETIM-6.0	EC002716
ETIM-7.0	EC002716

Connection



