PS98A132

LASER SENSORS • THROUGH-BEAM 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 DATA

Ambient temperature	-20 °C ... 50 °C
Degree of protection (IP)	IP67
Housing coating	Anodised
Housing design	Cuboid
Housing material	Aluminium
Reflector included in the scope of delivery	No
Sensor height	28 mm
Sensor length	24 mm
Sensor width	124 mm
Storage temperature	85 °C
Storage temperature	-20 °C

ELECTRICAL DATA

IO-Link compatible	No
Laser power	1 mW
Max. output current	100 mA
Measuring range	5 m
No-load current	60 mA
Number of pins	4
Operating voltage	12 V ... 32 V
Rated switching distance	5000 mm
Scanning function	Light-/dark-on mode
Setting procedure	Other
Switching frequency	25000 Hz
Type of analog output	0 V ... 10 V
Type of electrical connection	Connector M12
Type of input voltage	DC

ELECTRICAL DATA

Type of switching output	PNP/NPN
Voltage type	DC
With time function	No

OPTICAL DATA

Aperture length	6 mm
Aperture width	18 mm
Filter	Interference / polarizing filter
Laser class	2
Laser protection class	Class 1
Light beam form	Line
Light source	Laser diode, red light
Wavelength of the sensor	670 nm

OTHER DATA

Scope of delivery of the one-way system	Transmitter

DIMENSIONAL DRAWING

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!

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