

PTS10063

LASER SENSORS • LASER COPY COUNTERS

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)	IP54
Housing design	Cuboid
Housing material	Aluminium
Reflector included in the scope of delivery	No
Sensor height	40 mm
Sensor length	40 mm
Sensor width	205 mm
Storage temperature	85 °C
Storage temperature	-20 °C

ELECTRICAL DATA

Adjustment range	45 mm ... 45 mm
Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	No
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	No
IO-Link compatible	No
Max. output current	100 mA
Max. switching distance	45 mm
No-load current	150 mA
Number of pins	8
Number of switching outputs	2
Rated switching distance	40 mm
Reverse polarity protection	Yes
Scanning function	Light-/dark-on mode
Sensing range	35 mm ... 45 mm

ELECTRICAL DATA

Setting procedure	Parameterization
Short-circuit-proof	Yes
Switching frequency	130 Hz
Type of electrical connection	Plug-in connection
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP/NPN
Voltage type	DC
With LED display	Yes
With other analog output	No

OPTICAL DATA

Background suppression	Yes
Laser class	2
Laser protection class	Class 1
Light beam form	Point
Light source	Laser diode, red light
Triangulation	Background suppression
Wavelength of the sensor	670 nm

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!