

OE255800

OPTICAL SENSORS • THROUGH-BEAM SENSORS RECEIVERS

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 ... 70 °C
Degree of protection (IP)	IP65
Housing design	Cuboid
Housing material	PA 6.6 (synthetic)
Increased ambient temperatures >70°C	Yes
Material of optical surface	Plastic
Sensor height	88 mm
Sensor length	63 mm
Sensor width	24 mm

ELECTRICAL DATA

Decay time	6 ms
IO-Link compatible	No
Max. output current	3000 mA
Measuring range	20 m
No-load current	30 mA
No-load current, receiver	30 mA
Number of pins	5
Operating voltage	12 V ... 265 V
Rated switching distance	20000 mm
Readiness delay	60 ms
Relative repeat accuracy	0.1 µm
Response time	6 ms
Reverse polarity protection	Yes
Scanning function	Light-/dark-on mode
Setting procedure	Manual adjustment
Switching frequency	50 Hz

ELECTRICAL DATA

Type of electrical connection	Clamp
Type of input voltage	AC/DC
Type of switching function	Change-over contact (NO/NC)
Type of switching output	Relay contact
Voltage type	AC/DC
With LED display	Yes
With LED display (signal)	Yes
With time function	Yes

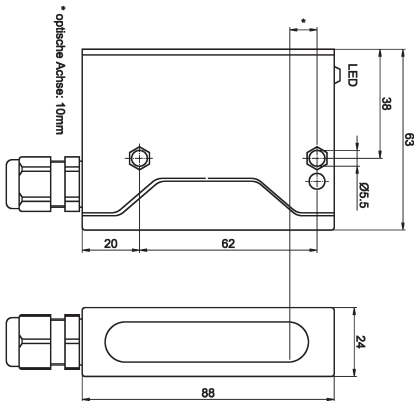
OPTICAL DATA

Light beam form	Point
Light source	Infrared light
Wavelength of the sensor	880 nm

OTHER DATA

Scope of delivery of the one-way system	Receiver
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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!