

## OY400320

### OPTICAL SENSORS • LIGHT 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	-10 °C ... 60 °C
Degree of protection (IP)	IP65
Housing design	Cuboid
Housing material	Aluminium
Sensor height	42 mm
Sensor length	83.5 mm
Sensor width	40 mm

#### ELECTRICAL DATA

IO-Link compatible	No
Max. output current	200 mA
No-load current	20 mA
Number of pins	4
Operating voltage	10 V ... 30 V
Rated switching distance	0 mm
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Switching frequency	1000 Hz
Type of electrical connection	Connector M12
Type of input voltage	DC
Type of switching function	Programmable/configurable
Type of switching output	PNP
Voltage drop	3 V
Voltage type	DC
With LED display	Yes
With LED display (operation)	Yes

**ELECTRICAL DATA**

With LED display (signal)

Yes

With time function

No

**OTHER DATA**

Scope of delivery of the one-way system

Receiver

**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!