

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.


TECHNICAL DATA

Ambient temperature (min/max)	-20 °C / 70 °C
Degree of protection (IP)	IP65
Housing design	Cuboid
Housing material	PA 6 (synthetic)
Increased ambient temperatures >70°C	YES
Material of optical surface	Plastic
Reflector included in the scope of delivery	NO
Sensor height	88 mm
Sensor length	63 mm
Sensor width	24 mm
Alarm output	NO
Function test	NO
Interference suppression	NO
Max. output current	3000 mA
Max. switching distance	8000 mm
No-load current	35 mA
Number of pins	5
Operating voltage (min/max)	12 V / 265 V
Rated control supply voltage U_s at AC 50HZ (min/max)	12 V / 265 V
Rated switching distance	8000 mm
Readiness delay	60 ms
Relative repeat accuracy	80 mm
Reverse polarity protection	YES
Scanning function	Light-/dark switching
Setting procedure	Manual adjustment
Short-circuit-proof	NO
Switching frequency	50 Hz
Turn-off delay	8 s

TECHNICAL DATA

Turn-on delay	10 s
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 communication interface, AS-Interface	NO
With communication interface, CANOpen	NO
With communication interface, DeviceNet	NO
With communication interface, Ethernet	NO
With communication interface, INTERBUS	NO
With communication interface, PROFIBUS	NO
With communication interface, RS-232	NO
With communication interface, RS-422	NO
With communication interface, RS-485	NO
With communication interface, SSD	NO
With communication interface, SSI	NO
With communication interface, analog	NO
With polarizing filter	NO
With time function	YES
For transparent objects	NO
Light beam form	Point
Light source	Infrared light
Wavelength of the sensor	880 nm

DIMENSIONAL DRAWING



