

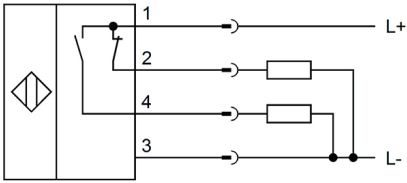
Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists 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)	-25 °C / 65 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Plastic ASA
Increased ambient temperatures >70°C	NO
Material of optical surface	PMMA
Reflector included in the scope of delivery	NO
Sensor height	43 mm
Sensor length	32.5 mm
Sensor width	14.8 mm
Alarm output	NO
Decay time	1 ms
Function test	NO
Interference suppression	YES
Max. output current	100 mA
Max. switching distance	7000 mm
No-load current	25 mA
Number of pins	4
Operating voltage (min/max)	10 V / 30 V
Rated control supply voltage U_s at DC (min/max)	10 V / 30 V
Rated switching distance	7000 mm
Response time	1 ms
Reverse polarity protection	YES
Scanning function	Light-/dark switching
Short-circuit-proof	YES
Switching frequency	500 Hz
Type of electrical connection	Connector M8
Type of input voltage	DC

TECHNICAL DATA

Type of switching function	Anticoincidence
Type of switching output	PNP
Voltage drop	1.8 V
Voltage type	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	YES
With time function	NO
For transparent objects	NO
Light beam form	Point
Light source	Polarized red light
Wavelength of the sensor	660 nm

CONNECTION


Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = pnp/nc, 3 = L-, 4 = pnp no

DIMENSIONAL DRAWING
