

OY410521**OPTICAL SENSORS • LIGHT BARIERS**

The multi-function light barriers are through-beam sensors where multiple beams are integrated. In case of interruption of only one beam, the switching output of the receiver changes its state. The devices are used where standard through-beam sensors with only one beam are not sufficient. There are devices with beam spacing of 20, 40, 60 or 120mm and different heights available. An integrated fuzzy logic controls the transmitting power automatically.

**MECHANICAL DATA**

Ambient temperature (MAX)	50 °C
Ambient temperature (MIN)	-5 °C
Cover material	Plastic
Degree of protection (IP)	IP65
Housing material	Aluminium
Material of optical surface	PMMA
Protected field height	155 mm
Sensor height	180 mm
Sensor length	20.5 mm
Sensor width	40 mm

ELECTRICAL DATA

Cascadable	No
Clock control possible	No
Max. output current	80 mA
No-load current, receiver	60 mA
No-load current, transmitter	60 mA
Number of pins, receiver	4
Number of pins, transmitter	4
Number of semiconductor outputs with signaling function	2
Override possible	No
Rated control supply voltage U_s at DC (MAX)	26.4 V
Rated control supply voltage U_s at DC (MIN)	21.6 V
Reaction time	1.9 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Suppression possible	No
Switching output type of the OSSD	PNP/NPN
Type of electrical connection	Connector M12
Type of switching function	Anticoincidence

ELECTRICAL DATA

Type of switching output

PNP/NPN

Voltage type

DC

With monitoring function of downstream devices

No

With muting function

No

With restart lock

No

OPTICAL DATA

Min. distance

0.15 m

Protected field range

0.4 m

Resolution of the light curtain

1 mm

OTHER DATA

Explosion protection category for dust

None

Explosion protection category for gas

None

Reduced resolution

No

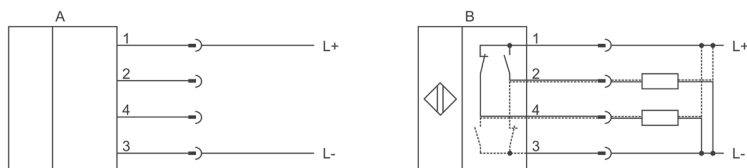
Scope of delivery of the one-way system

Transmitter and receiver

With beam coding

No

CONNECTION

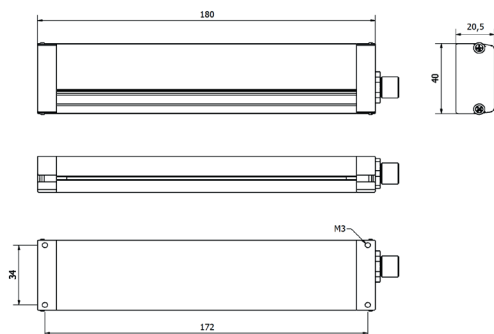


Colors: A: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = L+, 2 = n. c., 3 = L-, 4 = n. c.

B: 1 = L+, 2 = PNP NO / NPN NC, 3 = L-, 4 = PNP NC / NPN NO

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!

Never use these devices in applications where the safety of a person depends on their functionality.