

OY98A061

OPTICAL SENSORS • LIGHT BARRIERS

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)	55 °C
Ambient temperature (MIN)	-10 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing coating	Anodised
Housing material	Aluminium
Number of wires	3
Number of wires, receiver	4
Protected field height	100 mm
Sensor height	30 mm
Sensor length	10 mm
Sensor width	140 mm
Wire cross section	0.3 mm ²

ELECTRICAL DATA

Cascadable	No
Clock control possible	No
Equipment protection class	Protection class 3
Max. output current	100 mA
No-load current, receiver	100 mA
No-load current, transmitter	80 mA
Number of pins, receiver	4
Number of pins, transmitter	3
Number of semiconductor outputs with signaling function	2
Override possible	No
Rated control supply voltage Us at DC (MAX)	24 V
Rated control supply voltage Us at DC (MIN)	12 V
Reaction time	10 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No

ELECTRICAL DATA

Suppression possible	No
Type of electrical connection	Cable
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No
With muting function	No
With restart lock	No

OPTICAL DATA

Beam spacing	10 mm
Min. distance	0.17 m
Number of beams	11
Protected field range	1 m
Resolution of the light curtain	10 mm
Wavelength of the sensor	880 nm

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

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.