

OY350109

SAFETY SYSTEMS • LIGHT CURTAINS - HAND PROTECTION

safety light curtains are suitable for the protection of hazardous areas on machines according to the applicable standards. there are three groups of devices: body protection (2, 3 and 4 rays), hand protection (resolution 30mm) and finger protection (resolution 14mm). each group has devices with different protection field heights. Often these systems are used in conveyors, welding robots as well as cutting and bending machines



MECHANICAL DATA

Ambient temperature	-10 °C ... 55 °C
Degree of protection (IP)	IP65
Housing material	Aluminium with macrolon plastic cover panel
Protected field height	1503 mm
Sensor height	40 mm
Sensor length	1579 mm
Sensor width	35 mm

ELECTRICAL DATA

Cascadable	No
Clock control possible	No
Equipment protection class	Protection class 3
Max. output current at safe output	250 mA
No-load current, receiver	100 mA
No-load current, transmitter	70 mA
Number of pins, receiver	8
Number of pins, transmitter	4
Number of safe semiconductor outputs	2
Override possible	Yes
Rated control supply voltage U_s at DC	24 V ... 24 V
Reaction time	30 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	Yes
Suppression possible	No
Switching output type of the OSSD	PNP
Switching voltage of OSSD at state "high"	24 V
Type of electrical connection	Connector M12
Type of switching function	Normally open contact (NO)
Voltage type	DC
With LED display (7 segment)	Yes

ELECTRICAL DATA

With monitoring function of downstream devices	No
With muting function	Yes
With restart lock	Yes

OPTICAL DATA

Beam spacing	18.4 mm
Detection capability for samples	30 mm
Hand protection (< 30mm)	Yes
Number of beams	80
Protected field range	15 m
Resolution of the light curtain	30 mm
Wavelength of the sensor	880 nm

OTHER DATA

Explosion protection category for dust	None
Explosion protection category for gas	None
Safety category	Category 4
Safety type in acc. with IEC 61496-1	4
Scope of delivery of the one-way system	Transmitter and receiver
With beam coding	Yes

CONNECTION

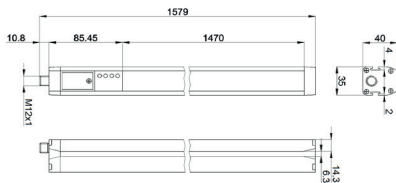


Colors: A: 1 = WH (white), 2 = BN (brown), 3 = GN (green), 4 = YE (yellow), 5 = GY (gray), 6 = PK (pink), 7 = BU (blue), 8 = RD (red)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = reset/restart, 2 = L+, 3 = EDM, 4 = EDM, 5 = OSSD1, 6 = OSSD2, 7 = L-, 8 = man./auto

B: 1 = L+, 2 = test, 3 = L-, 4 = n. c.

DIMENSIONAL DRAWING



INSTALLATION

DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!