

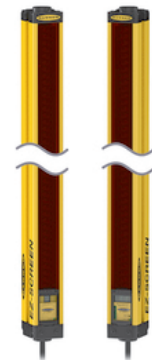
SLSP14-300P88

Light Screen for Machine Safety Applications – Emitter/Receiver Pair



Technical data

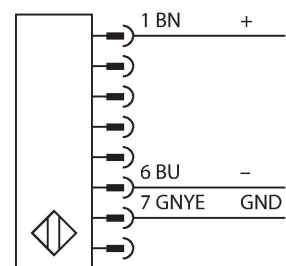
Type	SLSP14-300P88
ID	3073949
Optical data	
Function	Light screen
Light type	IR
Wavelength	850 nm
Optical resolution	14 mm
Range	100...6000 mm
Scan field	300 mm
Number of beams	40
With muting function	no
Scan Code	Adjustable
Electrical data	
Operating voltage	20...28 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 375 mA
No-load current	≤ 275 mA
Max. current safe output	500 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 x NC (normally closed), 2 x PNP
Current output	0...500 mA
Number of safe semiconductor outputs	2
Response time typical	< 15 ms
With restart interlock	yes
Blanking function	yes



Features

- Cable with male connector, M12 × 1, 8-pin, PVC, 300 mm
- Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC ±15 %
- Resolution 14 mm
- Scan field 300 mm
- All devices incl. 2 EZA-MBK-11 mounting brackets; 900 mm devices and longer additionally incl. 1 EZA-MBK-12

Wiring diagram



Functional principle

The high-resolution safety light screen for personnel protection consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate stop of the dangerous machine cycle. Personnel safety degree type 4 acc. to IEC 61496 is fulfilled through 2 channel monitoring of the switching device and the multiple-redundant construction with mutual processor control.

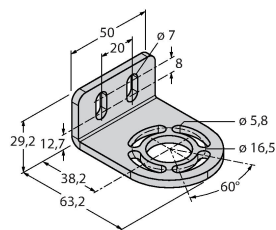
Technical data

Mechanical data	
Design	Rectangular, EZ-Screen
Dimensions	45 x 36 x 372 mm
Housing material	Metal, AL, Transparent anodized
Lens	plastic, Acrylic
Cascadable	No
Electrical connection	Cable with connector, M12 × 1
Number of cores	8
Ambient temperature	0...+50 °C
Protection class	IP65
Power-on indication	LED, Green
Switching state	2-color LED
Tests/approvals	
Vibration resistance	10-55 Hz at 0.35 mm
Shock test	10 g at 16 ms (6000 cycles)
Approvals	CE, cULus listed

Accessories

EZA-MBK-11

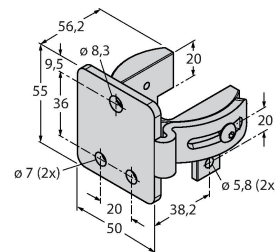
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Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

EZA-MBK-12

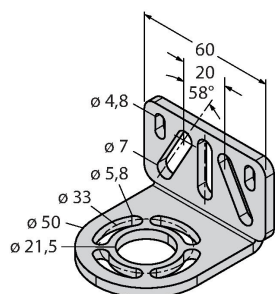
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Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

EZA-MBK-20

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Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm