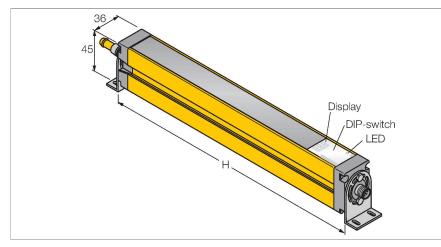


SLSCE14-1050P8 Light Screen for Machine Safety Applications – cascadable emitter



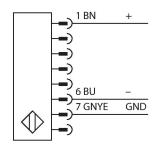
Technical data

ID no. 3073909 Optical dataFunctionLight screenLight typeIRWavelength 950 nm Optical resolution14 mmRange 1006000 mm Scan field 1050 mm Number of beams 140 With muting functionnoScan CodeAdjustableElectrical data 00 mA Operating voltage 2028 VDC Residual ripple $< 10 \% \text{ U}_{ss}$ DC rated operational current $\leq 100 \text{ mA}$ Short-circuit protectionyesReverse polarity protectionyesBlanking functionyesBlanking functionyesDesignRectangular, EZ-ScreenDimensions $45 \times 36 \times 1120 \text{ mm}$ Housing materialMetal, AL, Yellow polyesterLensplastic, Acrylic	Туре	SLSCE14-1050P8	
FunctionLight screenLight typeIRWavelength950 nmOptical resolution14 mmRange1006000 mmScan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical dataUOperating voltage2028 VDCResidual ripple< 10 % Ustration	ID no.	3073909	
Light typeIRWavelength950 nmOptical resolution14 mmRange1006000 mmScan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical data0Operating voltage2028 VDCResidual ripple< 10 % Ustable	Optical data		
Wavelength950 nmOptical resolution14 mmRange1006000 mmScan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical data2028 VDCOperating voltage2028 VDCResidual ripple< 10 % U _{ss} DC rated operational current≤ 100 mAShort-circuit protectionyesResponse time typical< 36 ms	Function	Light screen	
Optical resolution14 mmRange1006000 mmScan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical data0Operating voltage2028 VDCResidual ripple< 10 % Us	Light type	IR	
Range1006000 mmScan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical data2028 VDCOperating voltage2028 VDCResidual ripple< 10 % Uss	Wavelength	950 nm	
Scan field1050 mmNumber of beams140With muting functionnoScan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Usst	Optical resolution	14 mm	
Number of beams140With muting functionnoScan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Usst	Range	1006000 mm	
With muting functionnoScan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Uss	Scan field	1050 mm	
Scan CodeAdjustableElectrical data2028 VDCOperating voltage2028 VDCResidual ripple< 10 % U _{ss} DC rated operational current≤ 100 mAShort-circuit protectionyesReverse polarity protectionyesResponse time typical< 36 ms	Number of beams	140	
Electrical dataOperating voltage2028 VDCResidual ripple< 10 % Uss	With muting function	no	
Operating voltage 2028 VDCResidual ripple< 10 % Uss	Scan Code	Adjustable	
Residual ripple< 10 % UssDC rated operational current \leq 100 mAShort-circuit protectionyesReverse polarity protectionyesResponse time typical< 36 ms	Electrical data		
DC rated operational current $\leq 100 \text{ mA}$ Short-circuit protectionyesReverse polarity protectionyesResponse time typical $< 36 \text{ ms}$ With restart interlockyesBlanking functionyesMechanical dataDesignRectangular, EZ-ScreenDimensions $45 \times 36 \times 1120 \text{ mm}$ Housing materialMetal, AL, Yellow polyester	Operating voltage	2028 VDC	
Short-circuit protectionyesReverse polarity protectionyesResponse time typical< 36 ms	Residual ripple	< 10 % U _{ss}	
Reverse polarity protectionyesResponse time typical< 36 ms	DC rated operational current	≤ 100 mA	
Response time typical< 36 msWith restart interlockyesBlanking functionyesMechanical dataDesignRectangular, EZ-ScreenDimensions45 x 36 x 1120 mmHousing materialMetal, AL, Yellow polyester	Short-circuit protection	yes	
With restart interlockyesBlanking functionyesMechanical dataDesignRectangular, EZ-ScreenDimensions45 x 36 x 1120 mmHousing materialMetal, AL, Yellow polyester	Reverse polarity protection	yes	
Blanking functionyesMechanical dataRectangular, EZ-ScreenDesignRectangular, EZ-ScreenDimensions45 x 36 x 1120 mmHousing materialMetal, AL, Yellow polyester	Response time typical	< 36 ms	
Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1120 mm Housing material Metal, AL, Yellow polyester	With restart interlock	yes	
DesignRectangular, EZ-ScreenDimensions45 x 36 x 1120 mmHousing materialMetal, AL, Yellow polyester	Blanking function	yes	
Dimensions45 x 36 x 1120 mmHousing materialMetal, AL, Yellow polyester	Mechanical data		
Housing material Metal, AL, Yellow polyester	Design	Rectangular, EZ-Screen	
	Dimensions	45 x 36 x 1120 mm	
Lens plastic, Acrylic	Housing material	Metal, AL, Yellow polyester	
	Lens	plastic, Acrylic	

Features

- Male M12 × 1, 8-pin
- Up to 4 modules cascadable
- Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC +-15 %
- Resolution 14 mm
- Scan field 1050 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

Cascadable	yes	
Electrical connection	Cable with connector, M12 × 1	
Number of cores	8	
Ambient temperature	0+50 °C	
Protection class	IP65	
Power-on indication	LED, Green	
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-21

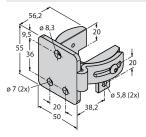
3073319 Mounting bracket, steel, blackfinished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm



3071470

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

EZA-MBK-12



3071756 Mounting bracket, steel, blackfinished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

EZA-MBK-20

ø 50 ø 21,5 -

3072587

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



Accessories

Dimension drawing	Туре	ID no.	
	QDE-815D	3070883	Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 8-pin
site Myst	QDE-825D	3070884	Connection cable for safety light screens, PVC, yellow, length 7.62 m, female connection, M12 x 1, 8-pin
	QDE-850D	3070885	Connection cable for safety light screens, PVC, yellow, length 15.3 m, female connection, M12 x 1, 8-pin
	QDE-875D	3071466	Connection cable for safety light screens, PVC, yellow, length 22.9 m, female connection, M12 x 1, 8-pin
a to Milari	QDE-8100D	3071467	Connection cable for safety light screens, PVC, yellow, length 30.5 m, female connection, M12 x 1, 8-pin
	DEE2R-81D	3072205	Connection cable, PVC, yellow, length: 0.31 m, female M12 x 1 - male M12, 8- pin
	DEE2R-83D	3072206	Connection cable, PVC, yellow, length: 0.91 m, female M12 x 1 - male M12, 8- pin
	DEE2R-88D_	3072635	Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12, 8- pin
	DEE2R-815D	3072207	Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1 - male M12, 8- pin
	DEE2R-825D	3072208	Connection cable, PVC, yellow, length: 7.62 m, female M12 x 1 - male M12, 8- pin
	DEE2R-850D	3072209	Connection cable, PVC, yellow, length: 15.2 m, female M12 x 1 - male M12, 8- pin
	DEE2R-875D	3072210	Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1 - male M12, 8- pin
	DEE2R-8100D	3072211	Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1 - male M12, 8- pin
	CSB-M1280M1280	3075375	Y-piece, PVC, yellow, with male M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female M12 x 1, 8-pin
	CSB-M1281M1281	3073252	Y-piece, PVC, yellow, length: 0.3 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8-pin
	CSB-M1288M1281	3073253	Y-piece, PVC, yellow, length: 2.5 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8- pin
	CSB-M12815M1281	3073254	Y-piece, PVC, yellow, length: 4.6 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable,



Dimension drawing	Туре	ID no.	
			PVC, yellow, with female, M12 x 1, 8- pin
	CSB-M12825M1281	3073255	Y-piece, PVC, yellow, length: 7.6 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8- pin
	DEE2R-88D	3094306	Connection cable, PVC, yellow, length: 2.44 m, M12 × 1 female connector, 8- pin, on M12 × 1 male connector, 8-pin