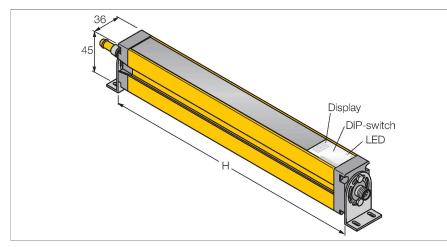


SLSCE14-1500Q8 Light Screen for Machine Safety Applications – cascadable emitter



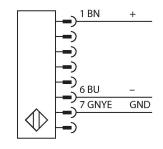
Technical data

ID 3073376 Optical dataFunctionLight screenLight typeIRWavelength 950 nm Optical resolution14 mmRange 1006000 mm Scan field 1500 mm Number of beams 200 With muting functionnoScan CodeAdjustableElectrical data $0perating voltage$ Operating voltage 2028 VDC Residual ripple $< 10 \% \text{ U}_{ss}$ DC rated operational current $\le 100 \text{ mA}$ Short-circuit protectionyesReverse polarity protectionyesBlanking functionyesBlanking functionyesBlanking functionyesBlanking functionyesMechanical data $Uses$ DesignRectangular, EZ-ScreenDimensions $45 \times 36 \times 1569 \text{ mm}$ Housing materialMetal, AL, Yellow polyesterLensplastic, Acrylic	Туре	SLSCE14-1500Q8	
FunctionLight screenLight typeIRWavelength950 nmOptical resolution14 mmRange1006000 mmScan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical data0perating voltage2028 VDCResidual ripple< 10 % Ustration	ID	3073376	
Light typeIRWavelength950 nmOptical resolution14 mmRange1006000 mmScan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical data0Operating voltage2028 VDCResidual ripple< 10 % Us	Optical data		
Wavelength950 nmOptical resolution14 mmRange1006000 mmScan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical data0Operating voltage2028 VDCResidual ripple< 10 % Uss	Function	Light screen	
Optical resolution14 mmRange1006000 mmScan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical data0Operating voltage2028 VDCResidual ripple< 10 % Us	Light type	IR	
Range1006000 mmScan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical data2028 VDCOperating voltage2028 VDCResidual ripple< 10 % Uss	Wavelength	950 nm	
Scan field1500 mmNumber of beams200With muting functionnoScan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Ust	Optical resolution	14 mm	
Number of beams200With muting functionnoScan CodeAdjustableElectrical data 0 Operating voltage2028 VDCResidual ripple< 10 % Uss	Range	1006000 mm	
With muting functionnoScan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Us	Scan field	1500 mm	
Scan CodeAdjustableElectrical dataOperating voltage2028 VDCResidual ripple< 10 % Uss	Number of beams	200	
Electrical dataOperating voltage2028 VDCResidual ripple< 10 % Uss	With muting function	no	
Operating voltage 2028 VDC Residual ripple< 10 % Uss	Scan Code	Adjustable	
Residual ripple< 10 % UssDC rated operational current \leq 100 mAShort-circuit protectionyesReverse polarity protectionyesResponse time typical< 48 ms	Electrical data		
DC rated operational current $\leq 100 \text{ mA}$ Short-circuit protectionyesReverse polarity protectionyesResponse time typical $< 48 \text{ ms}$ With restart interlockyesBlanking functionyesMechanical dataDesignRectangular, EZ-ScreenDimensions $45 \times 36 \times 1569 \text{ mm}$ Housing materialMetal, AL, Yellow polyester	Operating voltage	2028 VDC	
Short-circuit protectionyesReverse polarity protectionyesResponse time typical< 48 ms	Residual ripple	< 10 % U _{ss}	
Reverse polarity protectionyesResponse time typical< 48 ms	DC rated operational current	≤ 100 mA	
Response time typical< 48 msWith restart interlockyesBlanking functionyesMechanical dataDesignRectangular, EZ-ScreenDimensions45 x 36 x 1569 mmHousing materialMetal, AL, Yellow polyester	Short-circuit protection	yes	
With restart interlockyesBlanking functionyesMechanical data	Reverse polarity protection	yes	
Blanking function yes Mechanical data	Response time typical	< 48 ms	
Mechanical dataDesignRectangular, EZ-ScreenDimensions45 x 36 x 1569 mmHousing materialMetal, AL, Yellow polyester	With restart interlock	yes	
DesignRectangular, EZ-ScreenDimensions45 x 36 x 1569 mmHousing materialMetal, AL, Yellow polyester	Blanking function	yes	
Dimensions45 x 36 x 1569 mmHousing materialMetal, AL, Yellow polyester	Mechanical data		
Housing material Metal, AL, Yellow polyester	Design	Rectangular, EZ-Screen	
	Dimensions	45 x 36 x 1569 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 1500 mm
- All devices incl. 2 EZA-MBK-11 mounting brackets; 900 mm devices and longer additionally incl. 1 EZA-MBK-12
- Personnel safety Cat 4, PL e acc. to EN ISO 13849-1:2008
- Type 4 according to IEC 61496-1,-2
- SIL 3 to IEC 61508

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	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

00700/0		0074470
3073319 Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard 14 & 30 mm	50 20 4 8 1 0 50 0 7 4 8 1 0 5,8 0 0 0 0 0 0 0 0 0 0 0 0 0	3071470 Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mm
3071756	EZA-MBK-20	3072587
Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mm	ø 4,8 ø 7 ø 5,8 ø 33 ø 50 ø 21,5	Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard 14 & 30 mm
Туре	ID	
QDE-815D	3070883	Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 8-pin
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
	finished, for EZ-ARRAY and EZ- SCREEN standard 14 & 30 mm Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mm Type QDE-815D QDE-825D	Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard 14 & 30 mmImage: Constraint of the standard steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mmEZA-MBK-20Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mmImage: Constraint of the standard



Dimension drawing	Туре	ID	
	QDE-875D	3071466	Connection cable for safety light screens, PVC, yellow, length 22.9 m, female connection, M12 x 1, 8-pin
# 15.5 M(2 × 1	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, 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

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