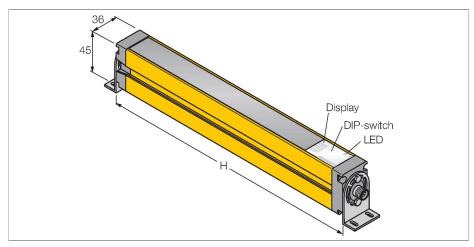


# SLSR30-600P8 Light Screen for Machine Safety Applications – Receiver



#### Technical data

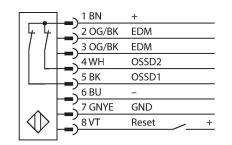
ID no.   3073895	Туре	SLSR30-600P8
Function Light screen  Optical resolution 30 mm  Range 10018000 mm  Scan field 600 mm  Number of beams 40  With muting function no  Scan Code Adjustable  Electrical data  Operating voltage 2028 VDC  Residual ripple < 10 % U <sub>ss</sub> DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	ID no.	3073895
Optical resolution 30 mm  Range 10018000 mm  Scan field 600 mm  Number of beams 40  With muting function no  Scan Code Adjustable  Electrical data Operating voltage 2028 VDC  Residual ripple < 10 % U <sub>ss</sub> DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 x PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Optical data	
Range 10018000 mm  Scan field 600 mm  Number of beams 40  With muting function no  Scan Code Adjustable  Electrical data Operating voltage 2028 VDC  Residual ripple < 10 % U₂   DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Function	Light screen
Scan field 600 mm  Number of beams 40  With muting function no  Scan Code Adjustable  Electrical data  Operating voltage 2028 VDC  Residual ripple < 10 % U₃  DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Mechanical data  Design Rectangular, EZ-Screen	Optical resolution	30 mm
Number of beams       40         With muting function       no         Scan Code       Adjustable         Electrical data       2028 VDC         Residual ripple       < 10 % U <sub>ss</sub> DC rated operational current       ≤ 275 mA         No-load current       ≤ 275 mA         Max. current safe output       0.5 mA         Short-circuit protection       yes         Reverse polarity protection       yes         Output function       2 x NC (normally closed), 2 × PNP         Current output       0500 mA         Number of safe semiconductor outputs       2         Response time typical       < 15 ms	Range	10018000 mm
With muting function no   Scan Code Adjustable   Electrical data 2028 VDC   Residual ripple < 10 % U₂s	Scan field	600 mm
Scan Code       Adjustable         Electrical data       2028 VDC         Residual ripple       < 10 % U₅s	Number of beams	40
Electrical data  Operating voltage 2028 VDC  Residual ripple < 10 % U₂s  DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Mechanical data  Design Rectangular, EZ-Screen	With muting function	no
Operating voltage       2028 VDC         Residual ripple       < 10 % U₅s	Scan Code	Adjustable
Residual ripple < 10 % U <sub>ss</sub> DC rated operational current ≤ 275 mA   No-load current ≤ 275 mA   Max. current safe output 0.5 mA   Short-circuit protection yes   Reverse polarity protection yes   Output function 2 x NC (normally closed), 2 × PNP   Current output 0500 mA   Number of safe semiconductor outputs 2   Response time typical < 15 ms	Electrical data	
DC rated operational current ≤ 275 mA  No-load current ≤ 275 mA  Max. current safe output 0.5 mA  Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Operating voltage	2028 VDC
No-load current ≤ 275 mA   Max. current safe output 0.5 mA   Short-circuit protection yes   Reverse polarity protection yes   Output function 2 x NC (normally closed), 2 × PNP   Current output 0500 mA   Number of safe semiconductor outputs 2   Response time typical < 15 ms	Residual ripple	< 10 % U <sub>ss</sub>
Max. current safe output  Short-circuit protection  Reverse polarity protection  Output function  Current output  Number of safe semiconductor outputs  Response time typical  With restart interlock  Blanking function  Design  O.5 mA   yes  2 x NC (normally closed), 2 x PNP  0500 mA  x 15 ms  yes  Response time typical  yes  Rectangular, EZ-Screen	DC rated operational current	≤ 275 mA
Short-circuit protection yes  Reverse polarity protection yes  Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	No-load current	≤ 275 mA
Reverse polarity protection  Output function  2 x NC (normally closed), 2 × PNP  Current output  0500 mA  Number of safe semiconductor outputs  2  Response time typical  Vith restart interlock  Blanking function  Mechanical data  Design  Pesson yes  Rectangular, EZ-Screen	Max. current safe output	0.5 mA
Output function 2 x NC (normally closed), 2 × PNP  Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Short-circuit protection	yes
Current output 0500 mA  Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Reverse polarity protection	yes
Number of safe semiconductor outputs 2  Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Output function	2 x NC (normally closed), 2 × PNP
Response time typical < 15 ms  With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Current output	0500 mA
With restart interlock yes  Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Number of safe semiconductor outputs	2
Blanking function yes  Mechanical data  Design Rectangular, EZ-Screen	Response time typical	< 15 ms
Mechanical data  Design Rectangular, EZ-Screen	With restart interlock	yes
Design Rectangular, EZ-Screen	Blanking function	yes
	Mechanical data	
Dimensions 45 x 36 x 671 mm	Design	Rectangular, EZ-Screen
	Dimensions	45 x 36 x 671 mm



#### **Features**

- Male M12 × 1, 8-pin
- ■Blanking function
- Protection class IP65
- ■Adjustment via DIP switch
- Operating voltage 24 VDC +-15 %
- Resolution 30 mm
- Scan field 600 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

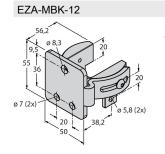
The high-resolution safety light screen for personnel protection consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate 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

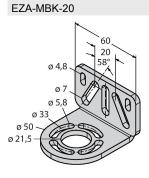
Housing material	Metal, AL, Yellow polyester		
Lens	plastic, Acrylic		
Cascadable	no		
Electrical connection	Cable with connector, M12 × 1		
Number of cores	8		
Ambient temperature	0+50 °C		
Protection class	IP65		
Power-on indication	LED, Green		
Switching state	2-color LED, Red		
Tests/approvals			
Vibration resistance	10-55 Hz at 0.35 mm		
Shock test	10 g at 16 ms (6000 cycles)		
Approvals	CE, cULus listed		
	<del></del>		

### Accessories

EZA-MBK-11	3071470
29.2 12.7 0 16.5 38.2 0 16.5	Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mm



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



3072587 Mounting bracket, steel, blackfinished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm



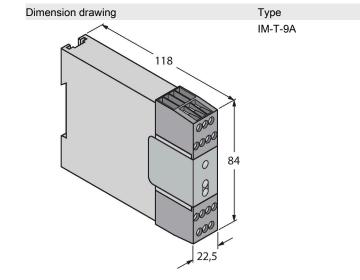
# Accessories

	_		
Dimension drawing	Type	ID no.	
# 14.5 M/2 x 1	QDE-815D	3070883	Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 8-pin
# 15.2 M22 1	QDE-825D	3070884	Connection cable for safety light screens, PVC, yellow, length 7.62 m, female connection, M12 x 1, 8-pin
# NO. MOZ-1	QDE-850D	3070885	Connection cable for safety light screens, PVC, yellow, length 15.3 m, female connection, M12 x 1, 8-pin
# M.S. M.Z. x 1	QDE-875D	3071466	Connection cable for safety light screens, PVC, yellow, length 22.9 m, female connection, M12 x 1, 8-pin
61A5 MIZa 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,

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
Accessories			

ID no.

3061425



Safety relay, category 4 acc. to ISO 13849-1 (EN 954.1), 2 inputs, 3 NO outputs, 24 VDC, supplies max. 6 A, 20 ms response time