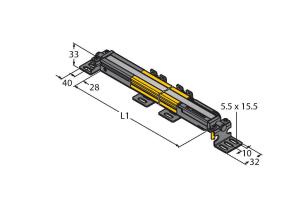


# SLPE14-970P8 Personnel Safety, Light Screen – Emitter



#### Technical data

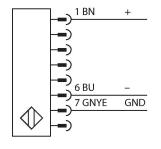
Туре	SLPE14-970P8	
ID	3083545	
Optical data		
Function	Light screen	
Light type	IR	
Wavelength	850 nm	
Optical resolution	14 mm	
Range	1007000 mm	
Scan field	970 mm	
Number of beams	97	
With muting function	no	
Scan Code	Adjustable	
Electrical data		
Operating voltage	2028 VDC	
Residual ripple	< 10 % U <sub>ss</sub>	
DC rated operational current	≤ 60 mA	
Current consumption non-actuated	≤ 60 mA	
No-load current	≤ 100 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Response time typical	< 25.5 ms	
Blanking function	yes	
Mechanical data		
Design	Rectangular, EZ-Screen LP	
Dimensions	26 x 28 x 969 mm	
Housing material	Metal, AL, Yellow polyester	
Lens	plastic, Acrylic	



#### Features

- Cable with male end M12 × 1, 8-pin, 300 mm
- Protection class IP65
- Flat housing without blind zone
- Scan code adjustable via DIP switch
- Operating voltage: 24 VDC ± 15 %
- Resolution 14 mm
- Scan field 970 mm (L1)
- 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 curtain is emitter and receiver in one without blind zone. As the system is synchronized optically, wiring between emitter and receiver is redundant. The safety switching outputs of the receiver are directly connected to a load relay (e.g. IM-TA9A) and trigger an immediate stop of the dangerous machine cycle. The switching device with 2-channel monitoring, diverse redundant designed and mutual processor control, complies with the personnel safety category PLe acc. to ISO 13849-1.



## Technical data

Cascadable	No	
Electrical connection	Cable with connector, M12 × 1, 0.3 m	
Number of cores	8	
Ambient temperature	0+55 °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, cTUVus, PL e acc. to ENISO 13849-1:2008, SIL 3 acc. to IEC 61508	

### Accessories

LPA-MBK-11	3082841	LPA-MBK-12	3082842
	Mounting bracket, retainer for closure caps, 14-ga. steel, galvanized, black, 360 ° sensor rotation, incl.2 pcs. with screw set		Mounting bracket, side mounting, 14- ga. steel, galvanized, black, +10°/-30° sensor rotation, incl.1 pcs. with screw set
LPA-MBK-20	3082853	LPA-MBK-22	3082844
	Mounting bracket, wall mounting, 12-ga. steel, galvanized, black, in combination with LPA-MBK-11/ -12/ -13, incl. 1 pcs. and screw set		Mounting bracket, wall mounting, 14-ga. steel, galvanized, black, in combination with LPA-MBK-11, incl. 2 pcs. and screw set
Accessories			
Dimension drawing	Туре	ID	
	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



Dimension drawing	Туре	ID	
s 145 M311	QDE-815D	3070883	Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 8-pin
a 143 MIZa 1 	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
# 145 MI2 x 1	QDE-8100D	3071467	Connection cable for safety light screens, PVC, yellow, length 30.5 m, female connection, M12 x 1, 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