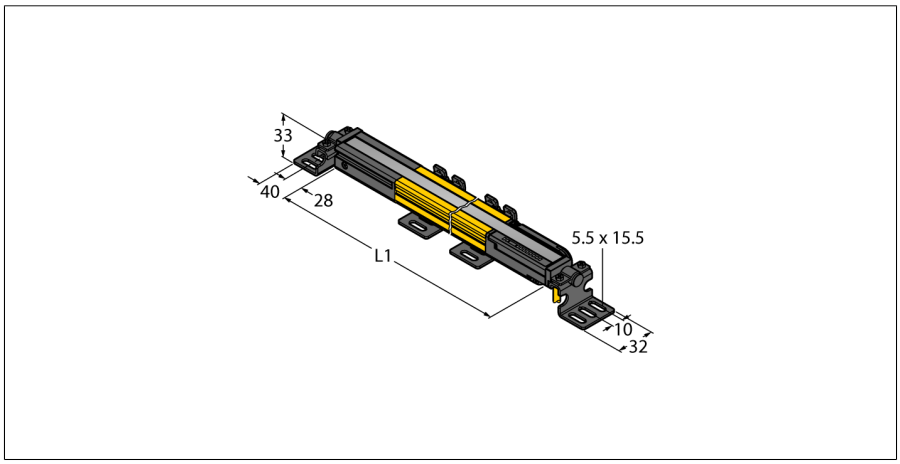
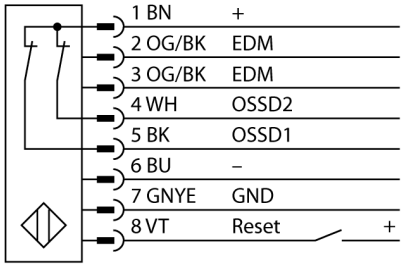
Personnel safety, light screen emitter/receiver pair
SLPP25-270AP88

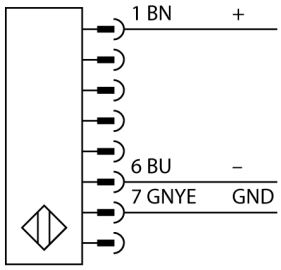


- **Cable with male end M12 x 1, 8-pin, 300 mm**
- **Protection class IP65**
- **Flat housing without blind zone**
- **Adjustment via DIP switch**
- **Resolution can be reduced**
- **Blanking function**
- **Operating voltage: 24 VDC ± 15 %**
- **Resolution 25 mm**
- **Scan field 270 mm (L1)**

Type designation	SLPP25-270AP88
Ident no.	3083956
Operating mode	Light screen
Light type	IR
Wavelength	850 nm
Optical resolution	25 mm
Range	0 mm
Scan field	270 mm
Number of beams	14
With muting function	no
Ambient temperature	0…+55 °C
Operating voltage	20…28 VDC
Residual ripple	< 10 % U_{ss}
No-load current I_0	≤ 275 mA
Max. current safe output	500 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 NC contact, 2 PNP
Number of safe semiconductor outputs	2
Response time typical	< 8 ms
With restart interlock	yes
Blanking function	yes
Approvals	CE, cTUVus, PL e acc. to ENISO 13849-1:2008, SIL 3 acc. to IEC 61508
Design	Rectangular, EZ-Screen LP
Dimensions	26 mm x 28 mm x 270 mm
Housing material	Metal, Yellow
Lens	plastic, acrylic
Cascadable	no
Electrical connection	Cable with connector, PVC, M12 1
Cable length	0.3 m
Protection class	IP65
Power-on indication	LED green
Switching state	2-color LED red

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. IMTA9A) 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.

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Accessories

Type code	Ident no.	Description
LPA-MBK-11	3082841	Mounting bracket, retainer for closure caps, 14-ga. steel, galvanized, black, 360 ° sensor rotation, incl.2 pcs. with screw set
LPA-MBK-12	3082842	Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, incl.1 pcs. with screw set
LPA-MBK-20	3082853	Mounting bracket, wall mounting, 12-ga. steel, galvanized, black, in combination with LPA-MBK-11/ -12/ -13, incl. 1 pcs. and screw set
LPA-MBK-22	3082844	Mounting bracket, wall mounting, 14-ga. steel, galvanized, black, in combination with LPA-MBK-11, incl. 2 pcs. and screw set

Wiring accessories

Type code	Ident no.	Description
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
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

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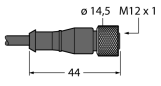
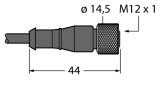
No dimension drawing available





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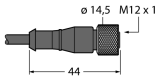
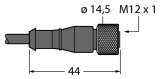
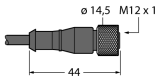
Wiring accessories

Type code	Ident no.	Description	
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	
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	

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