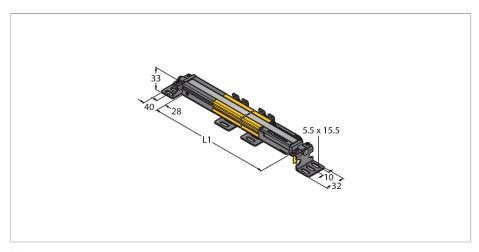


SLPCE25-1250 Personnel Safety, Light Screen – Emitter Cascadable



Technical data

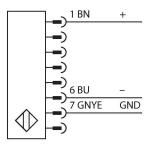
ID 3083708 Optical data Function Light type IR Wavelength 850 nm Optical resolution 25 mm Range 1007000 mm Scan field 1250 mm Number of beams 63 With muting function no Scan Code Adjustable Electrical data Operating voltage Operating voltage 2028 VDC Residual ripple < 10 % U _{st} DC rated operational 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 < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm Housing material Metal, AL, Yellow polyester	Туре	SLPCE25-1250
Euctrical data Operating voltage DC rated operational current Current consumption non-actuated No-load current Short-circuit protection Sesponse time typical Blanking function Elight screen IR B50 nm B63 With muting function D63 With muting function D64 Adjustable Electrical data Operating voltage C028 VDC Residual ripple C10 % U₁₂ B60 mA Current consumption non-actuated C100 mA	ID	3083708
Light type IR Wavelength 850 nm Optical resolution 25 mm Range 1007000 mm Scan field 1250 mm Number of beams 63 With muting function no Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U₅ 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 < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Optical data	
Wavelength 850 nm Optical resolution 25 mm Range 1007000 mm Scan field 1250 mm Number of beams 63 With muting function no Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U₅ 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 < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Function	Light screen
Optical resolution 25 mm Range 1007000 mm Scan field 1250 mm Number of beams 63 With muting function no Scan Code Adjustable Electrical data Operating voltage Operating voltage 2028 VDC Residual ripple < 10 % U _{ss} 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 < 18.5 ms	Light type	IR
Range 1007000 mm Scan field 1250 mm Number of beams 63 With muting function no Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U _{ss} 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 < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Wavelength	850 nm
Scan field Number of beams 63 With muting function Scan Code Electrical data Operating voltage Current consumption non-actuated No-load current Short-circuit protection Response time typical Blanking function Design Rectangular, EZ-Screen LP Dimensions 63 Min 1250 mm 1250	Optical resolution	25 mm
Number of beams 63 With muting function no Scan Code Adjustable Electrical data 2028 VDC Residual ripple < 10 % U₂s	Range	1007000 mm
With muting function no Scan Code Adjustable Electrical data 2028 VDC Operating voltage 2028 VDC Residual ripple < 10 % U₅s	Scan field	1250 mm
Scan Code Adjustable Electrical data 2028 VDC Residual ripple < 10 % U₂s	Number of beams	63
Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U _{ss} 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 < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	With muting function	no
Operating voltage 2028 VDC Residual ripple < 10 % U₅s	Scan Code	Adjustable
Residual ripple < 10 % U₅s	Electrical data	
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 < 18.5 ms	Operating voltage	2028 VDC
Current consumption non-actuated ≤ 60 mA No-load current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 18.5 ms	Residual ripple	< 10 % U _{ss}
No-load current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 18.5 ms	DC rated operational current	≤ 60 mA
Short-circuit protection yes Reverse polarity protection yes Response time typical < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Current consumption non-actuated	≤ 60 mA
Reverse polarity protection yes Response time typical < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	No-load current	≤ 100 mA
Response time typical < 18.5 ms Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Short-circuit protection	yes
Blanking function yes Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Reverse polarity protection	yes
Mechanical data Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Response time typical	< 18.5 ms
Design Rectangular, EZ-Screen LP Dimensions 26 x 28 x 1248 mm	Blanking function	yes
Dimensions 26 x 28 x 1248 mm	Mechanical data	
	Design	Rectangular, EZ-Screen LP
Housing material Metal, AL, Yellow polyester	Dimensions	26 x 28 x 1248 mm
	Housing material	Metal, AL, Yellow polyester



Features

- Electrical connection via RDLP-8 with open end or via DELPE-8 with male M12 × 1, 8-pin
- Connection to cascadable nodes via DELP-1...
- ■Protection class IP65
- ■Flat housing without blind zone
- Scan code adjustable via DIP switch
- Operating voltage: 24 VDC ± 15 %
- Resolution 25 mm
- Scan field 1250 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



Technical data

plastic, Acrylic Lens Yes Cascadable Electrical connection Cable entry for flat connector 0...+55 °C Ambient temperature Protection class IP65 Power-on indication LED, Green 2-color LED, Red Switching state Tests/approvals Vibration resistance 10-55 Hz at 0.35 mm Shock test 10 g at 16 ms (6000 cycles) CE, cTUVus, PL e acc. to ENISO Approvals 13849-1:2008, SIL 3 acc. to IEC 61508 device with 2-channel monitoring, diverse redundant designed and mutual processor control, complies with the personnel safety category PLe acc. to ISO 13849-1.

Accessories

LDA MDICAG	0000011	1 D4 14D17 40	2222212
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
LPA-MBK-21	3082845	LPA-MBK-90	3082846
	Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, adjustable orientation 90° to 180°		Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, firm orientation 90°
LPA-MBK-120	3082847	LPA-MBK-135	3082848
	Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, firm orientation 120°		Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, firm orientation 135°
LPA-MBK-180	3082849		
	Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, firm orientation 180°		

Accessories

Dimension drawing	Туре	ID	
	RDLP-815D	3080792	Connection cable, PVC, yellow, length: 4.57 m, RD connector for direct connection to the light screen
	RDLP-825D	3080793	Connection cable, PVC, yellow, length: 7.62 m, RD connector for direct connection to the light screen
	RDLP-850D	3080794	Connection cable, PVC, yellow, length: 15.2 m, RD connector for direct connection to the light screen



Dimonoion drawing	Typo	ID	
Dimension drawing	Type		Connection coble DVC
	RDLP-875D	3080795	Connection cable, PVC, yellow, length: 22.9 m, RD connector for direct connection to the light screen
	DELPE-81D	3080811	Connection cable, PVC, yellow, length: 0.31 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-83D	3080812	Connection cable, PVC, yellow, length: 0.91 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-88D	3080813	Connection cable, PVC, yellow, length: 2.44 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-815D	3080814	Connection cable, PVC, yellow, length: 4.57 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-825D	3080815	Connection cable, PVC, yellow, length: 7.62 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-850D	3080816	Connection cable, PVC, yellow, length: 15.2 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-875D	3080817	Connection cable, PVC, yellow, length: 22.9 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELPE-8100D	3080818	Connection cable, PVC, yellow, length: 30.5 m, RD connector for direct connection on male M12 x 1, 8-pin,
	DELP-110E	3080802	Connection cable, PVC, yellow, length: 0.05 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-111E	3080803	Connection cable, PVC, yellow, length: 0.3 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-113E	3080804	Connection cable, PVC, yellow, length: 0.91 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-118E	3080805	Connection cable, PVC, yellow, length: 2.44 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-1115E	3080806	Connection cable, PVC, yellow, length: 4.57 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-1125E	3080807	Connection cable, PVC, yellow, length: 7.62 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-1150E	3080808	Connection cable, PVC, yellow, length: 15.2 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-1175E	3080809	Connection cable, PVC, yellow, length: 22.9 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	DELP-11100E	3080810	Connection cable, PVC, yellow, length: 30.5 m, RD connector on RD connector, for interconnection of cascadable light screens of the EZ-Screen LP series
	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,



Dimension drawing	Туре	ID	
			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