

**Personnel safety, light screen
emitter/receiver pair
cascadable
SLPCP14-1810**



- 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
- Electrical connection via RDLP-8 with open end or via DELPE-8 with male M12 x 1, 8-pin
- Connection to cascadable nodes via DELP-1...
- Protection class IP65
- Flat housing without blind zone
- Adjustment via DIP switch
- Resolution can be reduced
- Blanking function
- Operating voltage: 24 VDC ± 15 %
- Resolution 14 mm
- Scan field 1810 mm (L1)

| | |
|--------------------------------|---------------------------|
| Type code | SLPCP14-1810 |
| Ident no. | 3083804 |
| Operating mode | light screen |
| Light type | IR |
| Wavelength | 850 nm |
| Optical resolution | 14 mm |
| Range | 0...7000 mm |
| Detection zone height | 1810 mm |
| Ambient temperature | 0...+55 °C |
| Operating voltage | 20...28VDC |
| Residual ripple | < 10 % U _s |
| No-load current I ₀ | ≤ 275 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | 2x NC, 2 x PNP |
| Response time | < 43.5 ms |
| Design | rectangular, EZ-Screen LP |
| Dimensions | 26 x 28 x 1807 mm |
| Housing material | metal, AL, yellow |
| Lens | plastic, acrylic |
| Connection | male |
| 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. 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.

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Accessories

| Type code | Ident no. | Description | Dimension drawing |
|-------------|-----------|---|-------------------|
| 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 | |
| LPA-MBK-21 | 3082845 | 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 ° | |
| LPA-MBK-90 | 3082846 | 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 | Mounting bracket, side mounting, 14-ga. steel, galvanized, black, +10°/-30° sensor rotation, for mounting of cascadable EZ-Screen LP, firm orientation 120° | |
| 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 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 ° | |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|-------------|-----------|---|-------------------|
| 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 | |
| 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 | |

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TURCK

Industrial
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Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------------|-----------|---|-------------------|
| 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, 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 | |