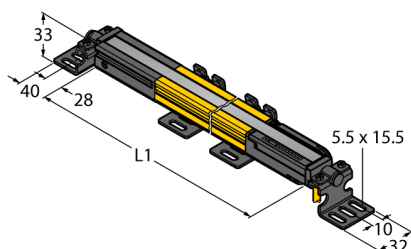


# Safety Light Curtain Emitter Cascadable SLPCE14-830



|      |             |
|------|-------------|
| Type | SLPCE14-830 |
| ID   | 3083683     |

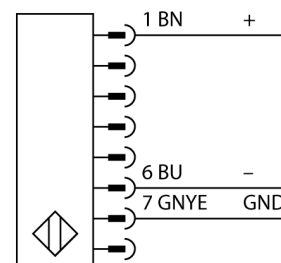
|                      |               |
|----------------------|---------------|
| Optical data         |               |
| Function             | Light screen  |
| Light type           | IR            |
| Wavelength           | 850 nm        |
| Optical resolution   | 14 mm         |
| Range                | 100...7000 mm |
| Scan field           | 830 mm        |
| Number of beams      | 83            |
| With muting function | No            |
| Scan Code            | Adjustable    |

|                                  |              |
|----------------------------------|--------------|
| Electrical data                  |              |
| Operating voltage $U_s$          | 20...28 VDC  |
| Residual ripple                  | < 10 % $U_s$ |
| DC rated operating current $I_s$ | ≤ 60 mA      |
| Current consumption non-actuated | ≤ 60 mA      |
| No-load current $I_0$            | ≤ 100 mA     |
| Short-circuit protection         | yes          |
| Reverse polarity protection      | yes          |
| Insulation class                 | III          |
| Response time typical            | < 22.5 ms    |
| Blanking function                | yes          |

|                       |                                |
|-----------------------|--------------------------------|
| Mechanical data       |                                |
| Design                | Rectangular, EZ-Screen LP      |
| Housing material      | Metal, AL, Yellow polyester    |
| Lens                  | plastic, Acrylic               |
| Cascadable            | Yes                            |
| Electrical connection | Cable entry for flat connector |
| Ambient temperature   | 0...+55 °C                     |
| Protection class      | IP65                           |

- Electrical connection via RDLP-8 with open end or via DELPE-8 with M12 × 1 male connector, 8-pin
- Connection to cascable nodes via DELP-1...
- Protection class IP65
- Flat housing without blind zone
- Scan code adjustable via DIP switch
- Operating voltage: 24 VDC ± 15 %
- Resolution 14 mm
- Scan field 830 mm (L1)
- Personnel safety category 4, PL e acc. to EN ISO 13849-1:2008
- Type 4 acc. to IEC 61496-1,-2
- SIL 3 to IEC 61508

## Wiring Diagram



## Functional principle

The high-resolution safety light curtain without blind zone consists of an emitter and a receiver. As the system is optically synchronized, no wiring between the emitter and receiver is required. The safety switching outputs of the receiver are directly connected to a load relay (e.g. IM-T-9A) and trigger an imme-

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| 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 EN ISO 13849-1:2008,<br>SIL 3 acc. to IEC 61508 |

diate stop of dangerous machine cycles. Due to the 2-channel monitoring of the switching device and the diverse redundancy of the design, which involves two processors controlling each other mutually, the requirements of personnel safety PL e acc. to ISO 13849-1 are fulfilled.

## Accessories

| Type code   | Ident no. |                                                                                                                                                                         | 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 cascable 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 cascable 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 cascable 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 cascable 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 cascable EZ-Screen LP, firm orientation 180 °              |                   |