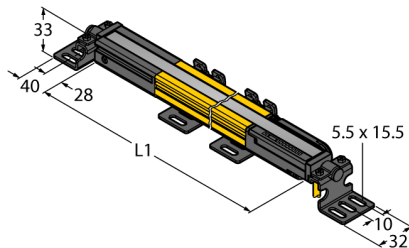
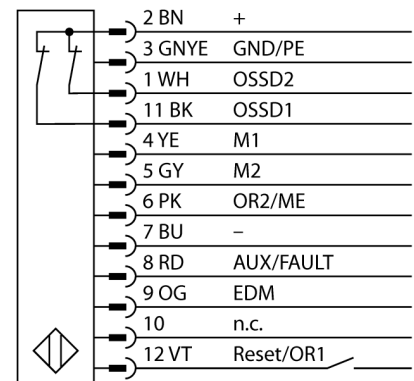


# Safety Light Curtain Receiver Integrated Muting Function SLPMR14-970P12



- Cable with male end M12 x 1, 8-pin, 300 mm
- Protection class IP65
- Flat housing without blind zone
- Adjustments via DIP switch
- Resolution can be reduced
- Blanking function
- Operating voltage: 24 VDC  $\pm$  15 %
- Resolution 14 mm
- Scan field 970 mm (L1)
- Mounting bracket included in delivery

## Wiring Diagram



## Functional principle

The high-resolution safety light screen is emitter and receiver in one without blind zone. As the system is optically synchronized, emitter/receiver wiring is superfluous. The receiver's safety switching outputs are directly connected to a load relay (e.g. IM-T-9A) and trigger an immediate stop of dangerous machine cycles. Personnel safety category PLe acc. to ISO 13849-1 is fulfilled through 2-channel monitoring of the switching device and the principle of diverse redundancy by which two processors control each other mutually.

|                                      |                         |
|--------------------------------------|-------------------------|
| Type                                 | SLPMR14-970P12          |
| ID                                   | 3084457                 |
| <b>Optical data</b>                  |                         |
| Function                             | Light screen            |
| Optical resolution                   | 14 mm                   |
| Range                                | 0...7000 mm             |
| Scan field                           | 970 mm                  |
| Number of beams                      | 97                      |
| With muting function                 | Yes                     |
| Scan Code                            | Adjustable              |
| <b>Electrical data</b>               |                         |
| Operating voltage $U_s$              | 20...28 VDC             |
| Residual ripple                      | < 10 % $U_s$            |
| DC rated operating current $I_s$     | $\leq$ 150 mA           |
| Current consumption non-actuated     | $\leq$ 150 mA           |
| No-load current $I_o$                | $\leq$ 275 mA           |
| Max. current safe output             | 500 mA                  |
| Short-circuit protection             | yes                     |
| Reverse polarity protection          | yes                     |
| Output function                      | 2 x NC contact, 2 x PNP |
| Current output                       | 0...500 mA              |
| Number of safe semiconductor outputs | 2                       |
| Insulation class                     | III                     |
| Response time typical                | < 25.5 ms               |
| With restart interlock               | yes                     |
| Blanking function                    | yes                     |

|                            |                                      |
|----------------------------|--------------------------------------|
| <b>Mechanical data</b>     |                                      |
| Design                     | Rectangular, EZ-Screen LP            |
| Housing material           | Metal, AL, Yellow polyester          |
| Lens                       | plastic, Acryl                       |
| Cascadable                 | No                                   |
| Electrical connection      | Cable with connector, M12 × 1, 0.3 m |
| Number of cores            | 12                                   |
| Ambient temperature        | 0...+55 °C                           |
| Protection class           | IP65                                 |
| <b>Power-on indication</b> |                                      |
| Power-on indication        | LED, Green                           |
| Switching state            | 2-color LED, Red                     |
| <b>Tests/approvals</b>     |                                      |
| Vibration resistance       | 10–55 Hz at 0.35 mm                  |
| Shock test                 | 10 g at 16 ms (6000 cycles)          |
| Approvals                  | CE, cTUVus                           |