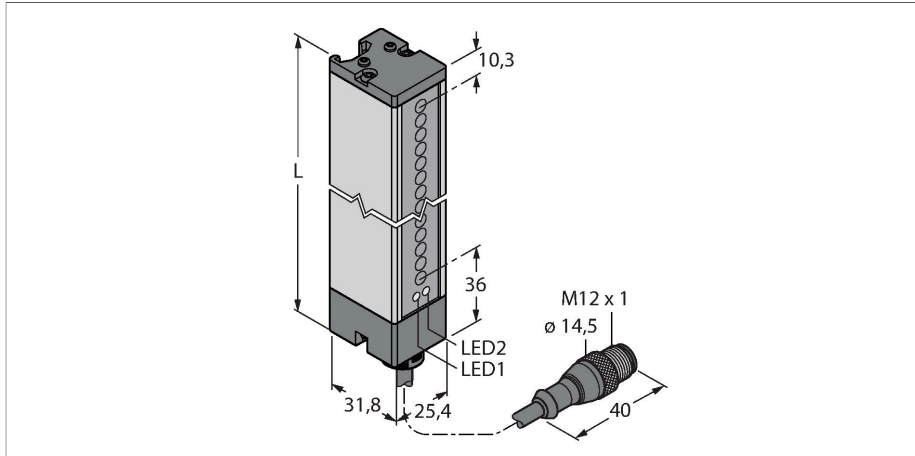


# LX6ERSRQ

## Photoelectric Sensor – Opposed Mode Sensor Pair



### Technical data

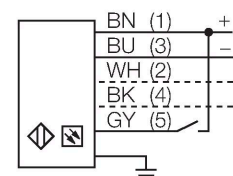
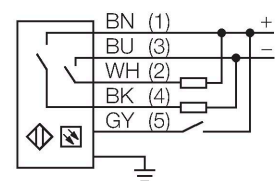
|                             |                                            |
|-----------------------------|--------------------------------------------|
| Type                        | LX6ERSRQ                                   |
| ID                          | 3074863                                    |
| <b>Optical data</b>         |                                            |
| Function                    | Light screen                               |
| Operating mode              | Emitter/receiver pair                      |
| Light type                  | IR                                         |
| Wavelength                  | 880 nm                                     |
| Optical resolution          | 5.6 mm                                     |
| Range                       | 75...200 mm                                |
| Scan field                  | 143 mm                                     |
| <b>Electrical data</b>      |                                            |
| Operating voltage           | 10...30 VDC                                |
| Residual ripple             | < 10 % U <sub>ss</sub>                     |
| No-load current             | ≤ 100 mA                                   |
| Short-circuit protection    | yes                                        |
| Reverse polarity protection | yes                                        |
| Output function             | NO contact, PNP/NPN                        |
| Current output              | 125 mA                                     |
| Response time typical       | < 1.6 ms                                   |
| <b>Mechanical data</b>      |                                            |
| Design                      | Rectangular, LX                            |
| Dimensions                  | 31.8 x 25.4 x 189.6 mm                     |
| Housing material            | Metal, AL, Grey                            |
| Lens                        | plastic, Acrylic                           |
| Electrical connection       | Cable with connector, M12 × 1, 0.15 m, PVC |



### Features

- Cable with male end M12 × 1, 5-pin, 0.15 m
- Protection class IP65
- Scan field 143 mm
- Minimum object size 5.6 mm
- Transmitter and receiver included in delivery
- Operating voltage: 10 ... 30 VDC
- Programmable connection for reduced sensing range
- 2 slot nuts including M5 screws for wall mounting included in the scope of delivery

### Wiring diagram



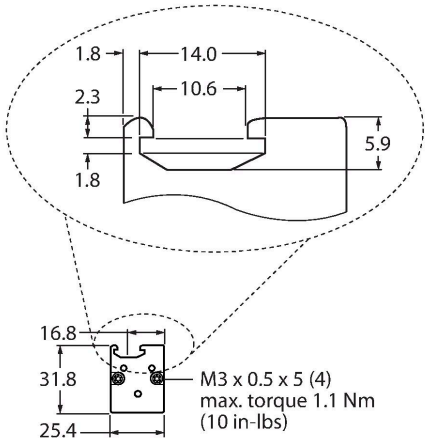
### Functional principle

Light screens are used to monitor large areas. They consist of an emitter and a receiver. Switching light screens with scanning heights of up to 76 mm (LX3...) and up to 914 mm (Lx36...) are available.

Technical data

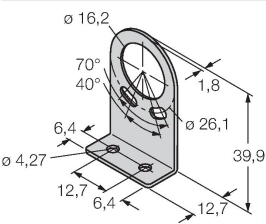
|                     |                                          |
|---------------------|------------------------------------------|
| Number of cores     | 5                                        |
| Core cross-section  | 0.5 mm <sup>2</sup>                      |
| Ambient temperature | -20...+70 °C                             |
| Relative humidity   | 0...90 %                                 |
| Protection class    | IP65                                     |
| Power-on indication | LED, Green                               |
| Switching state     | LED, Yellow                              |
| Error indication    | LED, red, Flashing                       |
| Tests/approvals     |                                          |
| MTTF                | 74 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals           | CE, cURus                                |

The crossed beams of the LX light screen enable small objects and/or objects that are not standard shapes to be reliably detected.



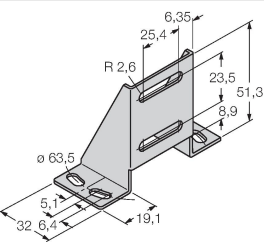
Accessories

SMBLX 3002915



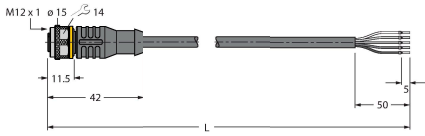
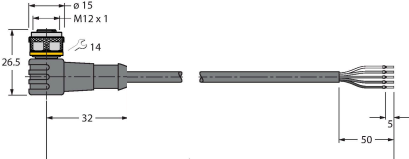
Mounting bracket, galvanized steel, for LX series, 2 pcs., not included in delivery

SMBLXR 3002914



Foot, galvanized steel, for LX series

Accessories

| Dimension drawing                                                                   | Type          | ID      |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | MQDEC2-506    | 3060810 | Anschlusskabel, PVC, geschirmt, Länge 1.83 m, M12 x 1 Kupplung 5-polig auf offenes Ende                                                                                                                          |
|                                                                                     | MQDEC2-506RA  | 3060813 | Anschlusskabel, PVC, geschirmt, Länge 1.83 m, M12 x 1 Kupplung gewinkelt 5-polig auf offenes Ende                                                                                                                |
|                                                                                     | RKC4.5T-2/TEL | 6625016 | Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a> |
|  | WKC4.5T-2/TEL | 6625028 | Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>   |
|  |               |         |                                                                                                                                                                                                                  |