

# LX9RQ

## Photoelectric Sensor – Opposed Mode Sensor (Receiver)



### Technical data

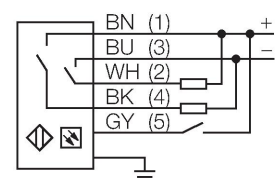
|                             |                                            |
|-----------------------------|--------------------------------------------|
| Type                        | LX9RQ                                      |
| ID                          | 3071668                                    |
| <b>Optical data</b>         |                                            |
| Function                    | Light screen                               |
| Operating mode              | Receiver                                   |
| Optical resolution          | 9.5 mm                                     |
| Range                       | 150...2000 mm                              |
| Scan field                  | 218 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       | < 2.4 ms                                   |
| <b>Mechanical data</b>      |                                            |
| Design                      | Rectangular, LX                            |
| Dimensions                  | 31.8 x 25.4 x 265.8 mm                     |
| Housing material            | Metal, AL, Grey                            |
| Lens                        | plastic, Acrylic                           |
| Electrical connection       | Cable with connector, M12 x 1, 0.15 m, PVC |
| Number of cores             | 5                                          |
| Core cross-section          | 0.5 mm <sup>2</sup>                        |



### Features

- Cable with male end M12 x 1, 5-pin, 0.15 m
- Protection class IP65
- Scan field 218 mm
- Minimum target size 9.5 mm
- 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

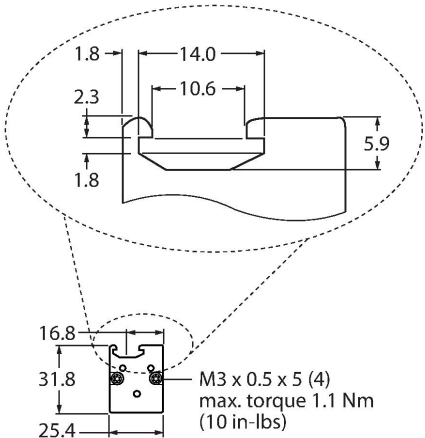


### Functional principle

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

Technical data

|                     |                                          |
|---------------------|------------------------------------------|
| 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                                |



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>   |