

LX3ERSRQ

Photoelectric Sensor – Opposed Mode Sensor Pair



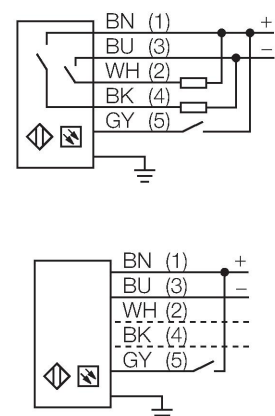
Technical data

Type	LX3ERSRQ
ID no.	3074862
Optical data	
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	67 mm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
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	< 0.8 ms
Mechanical data	
Design	Rectangular, LX
Dimensions	31.8 x 25.4 x 113.4 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 67 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 especially suited to monitor large areas. They consist of an emitter and a receiver unit. Switching light screens are available with scanning heights of up to 599 mm.

Technical data

Number of cores	5
Core cross-section	0.5 mm ²
Ambient temperature	-20...+70 °C
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

Technical drawing of the mounting bracket for the LX series. Dimensions include: $\varnothing 16,2$, 70°, 40°, 1,8, $\varnothing 26,1$, 39,9, 6,4, $\varnothing 4,27$, 12,7, 6,4, and 12,7.

3002915

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

SMBLXR

Technical drawing of the foot for the LX series. Dimensions include: 6,35, 25,4, R 2,6, 23,5, 51,3, 8,9, $\varnothing 63,5$, 5,1, 32, 6,4, and 19,1.

3002914

Foot, galvanized steel, for LX series

Accessories

Dimension drawing	Type	ID no.	
	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 www.turck.com
Technical drawing of the RKC4.5T-2/TEL cable. Dimensions include: M12 x 1 $\varnothing 15$, 14, 11,5, 42, 50, and L.			
	WK4.5T-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 www.turck.com
Technical drawing of the WK4.5T-2/TEL cable. Dimensions include: $\varnothing 15$, M12 x 1, 14, 26,5, 32, 50, and L.			