LS 64

Throughbeam photoelectric sensors



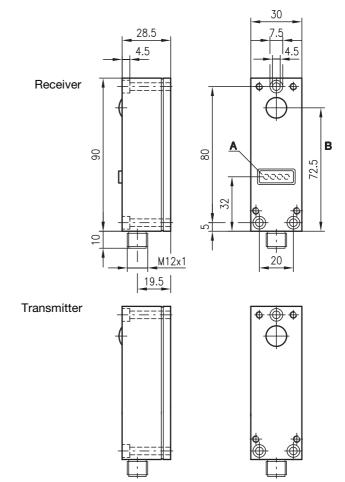
|

0 ... 60m 0 ... 120m



- Throughbeam photoelectric sensor with infrared light
- 4-way LED indicator for fast status display and exact alignment
- Activation input for function testing and linking several optical axes
- Connection via M12 connector and plug

Dimensioned drawing

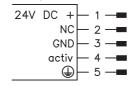


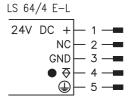
- A Indicator diodes
- **B** Optical axis

Electrical connection



LS 64/2.8 Se-L LS 64/2.8 Se-L.1













Accessories:

(available separately)

- Mounting systems (BT 64)
- Diaphragm (BL 64)
- M12 connectors (KD ...)
- Ready-made cables (K-D M12 ...)

LS 64

Specifications

LS 64/4.8 L.1 **Optical data** LS 64/4.8 L Typ. operating range limit 1) 0 ... 60m 0 ... 120m Operating range 2) ... 50m 0 ... 100m LED (modulated light) Light source

Wavelength 880nm

Timing

Switching frequency 100 Hz Response time ≤ 5 ms ≤ 100 ms Delay before start-up

Electrical data

Operating voltage UB 24VDC ± 20% ≤ 10% of U_B Residual ripple Bias current Transmitter ≤ 65mA ≤ 35mA Receiver Switching output PNP transistor Function characteristics light switching

Output current **Indicators**

Receiver

4-fold LED red switching state and alignment aid

Function characteristics no signal - output=low

number of illuminating LEDs as indicator LEDs on:

max. 100mA

for receiving level - output=high

Mechanical data

Housing diecast aluminium

glass 430g Optics Weight

M12 connector, stainless steel, 5-pin Connection type

Environmental data

Ambient temp. (operation/storage) Protective circuit 3) -20°C ... +60°C/-40°C ... +70°C

1, 2, 3 IP 65

Protection class

exempt group (in acc. with EN 62471) IEC 60947-5-2 Light source

Standards applied

Options

Activation input activ

Transmitter active/not active \geq 8V/ \leq 2V or not connected

Activation/disable delay 0.5ms

1) Typ. operating range limit: max. attainable range without performance reserve

Operating range: recommended range with performance reserve

3) 1=transient protection, 2=polarity reversal protection, 3=short-circuit protection for all outputs

Order guide

| | Designation | Part No. |
|--------------------------|------------------|----------|
| With M12 connector | | |
| Transmitter and receiver | LS 64/4.8 L | |
| Transmitter | LS 64/2.8 Se-L | 50029414 |
| Receiver | LS 64/4 E-L | 50029415 |
| | | |
| Transmitter and receiver | LS 64/4.8 L.1 | |
| Transmitter | LS 64/2.8 Se-L.1 | 50029416 |
| Receiver | LS 64/4 E-L | 50029415 |

Tables

Remarks

Operate in accordance with intended use!

- 🖔 This product is not a safety sensor and is not intended as personnel protection. Some product may only be put into
- operation by competent persons.
- \$ Only use the product in accordance with the intended use.
- Optimal performance reserve is achieved when all four LEDs illuminate.
- The first red LED indicates the state of the switching output.
- The diameter of the darkening object must be ≥ 12 mm.
- Operating range with diaphragm

LS 64/4.8 L 0 ... 2m LS 64/4.8 L.1 0 ... 4m