

LS 64

Throughbeam photoelectric sensors

en 03-2015/06 50119301

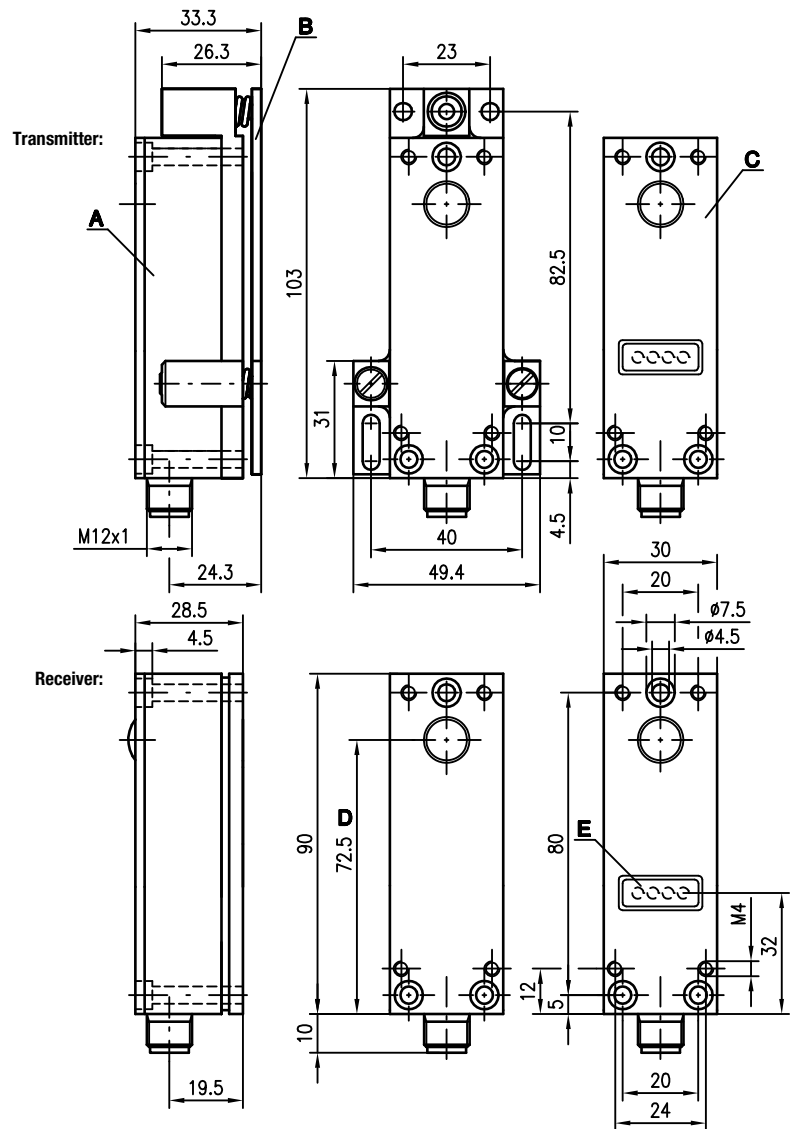


0 ... 60m
0 ... 120m



- Throughbeam photoelectric sensor with infrared light
- 4-way LED indicator for fast status display and exact alignment
- Integrated mechanical transmitter alignment aid
- Activation input for function check and for linking several axes
- Connection via M12 connector

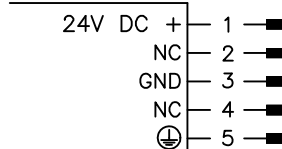
Dimensioned drawing



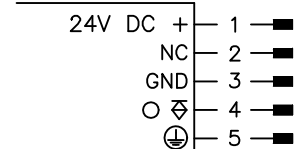
- A Transmitter
- B Wobble plate
- C Receiver
- D Optical axis
- E Indicator diodes

Electrical connection

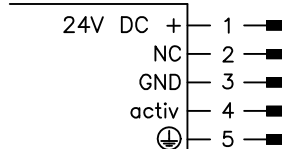
LS 64/2 Se-L
LS 64/2 Se-L.1
LS 64/2 Se-L.01



LS 64/4 E-L



LS 64/2.8 Se-L.01



We reserve the right to make changes • DS_LS64_4L1_en_50119301.fm



Accessories:

(available separately)

- M12 connectors (KD ...)
- Ready-made cables (K-D M12 ...)

Specifications

Optical data

Typ. operating range limit ¹⁾
 Operating range ²⁾
 Light source
 Wavelength

LS 64/4 L
 0 ... 60m
 0 ... 50m
 LED (modulated light)
 880nm

LS 64/4 L.1
LS 64/4.8 L.01
 0 ... 120m
 0 ... 100m

Timing

Switching frequency
 Response time
 Delay before start-up

100Hz
 ≤ 5ms
 ≤ 100ms

Electrical data

Operating voltage U_B
 Residual ripple
 Open-circuit current
 Transmitter
 Receiver
 Switching output
 Function
 Output current

24VDC ± 20%
 ≤ 10% of U_B
 ≤ 65mA
 ≤ 35mA
 PNP transistor
 light switching
 max. 100mA

Indicators

Receiver
 4-fold LED red
 Function

switching state and alignment aid
 off: no signal - output=low
 LEDs on: number of illuminating LEDs as indicator
 for receiving level - output=high

Mechanical data

Housing
 Optics
 Weight
 Connection type
 Transmitter alignment aid

diecast aluminum
 glass
 430g
 M12 connector, stainless steel, 5-pin
 Integrated wobble plate

Environmental data

Ambient temp. (operation/storage)
 Protective circuit ³⁾
 Degree of protection
 Light source
 Standards applied

-20°C ... +60°C/-40°C ... +70°C
 1, 2, 3
 IP 65
 exempt group (in acc. with EN 62471)
 IEC 60947-5-2

Options

Activation input active
 Transmitter active/not active
 Activation/disable delay

≥ 8V/≤ 2V or not connected
 0.5ms

- 1) Typ. operating range limit: max. attainable range without function reserve
 2) Operating range: recommended range with function reserve
 3) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection for all outputs

Order guide

	Designation	Part no.
Operating range 60m		
Transmitter and receiver	LS 64/4 L	
Transmitter	LS 64/2 Se-L	50031557
Receiver	LS 64/4 E-L	50029415
Operating range 120m		
Transmitter and receiver	LS 64/4 L.1	
Transmitter	LS 64/2 Se-L.1	50031558
Receiver	LS 64/4 E-L	50029415
Operating range 120m, activation input		
Transmitter and receiver	LS 64/4.8 L.01	
Transmitter	LS 64/2.8 Se-L.01	50129554
Receiver	LS 64/4 E-L	50029415

Tables

Diagrams

Remarks

Operate in accordance with intended use!
<ul style="list-style-type: none"> ↪ This product is not a safety sensor and is not intended as personnel protection. ↪ The product may only be put into operation by competent persons. ↪ Only use the product in accordance with the intended use.

- Optimal function reserve is achieved when all four LEDs illuminate.
- The first red LED indicates the state of the switching output.
- Blackening object diameter must be ≥ 12mm.