



LSR 95

Throughbeam photoelectric sensors



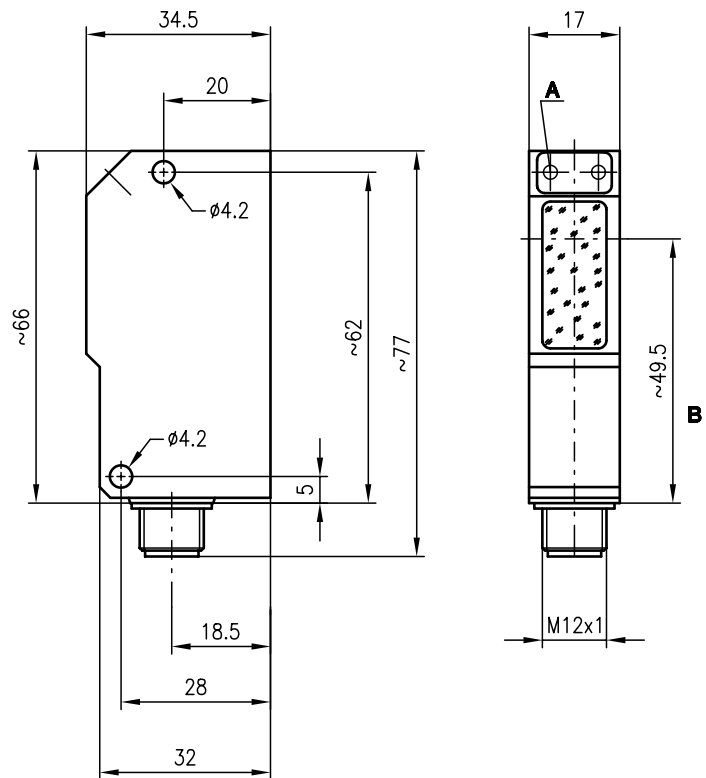
Dimensioned drawing



0 ... 10m

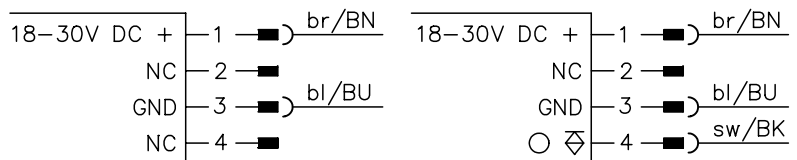


- Throughbeam photoelectric sensor with high performance reserve in red light
- Small construction with glass cover and robust zinc diecast housing, protection class IP 67/IP 69K for industrial application
- Mounting holes and M12 connector for fast installation



- A Switching indicator yellow
- B Optical axis

Electrical connection



Accessories:

(available separately)

- Mounting systems (BT 95, UMS 1)
- M12 connectors (KD ...)

We reserve the right to make changes • 95_a02e.fm

Specifications

Optical data

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

LSR 95/4 L
 0 ... 10m
 0 ... 6m
 LED (modulated light)
 660nm (visible red light)

Timing

Switching frequency
 Response time
 Delay before start-up

200Hz
 2.5ms
 ≤ 100ms

Electrical data

Operating voltage U_B
 Residual ripple
 Bias current
 Switching output
 Function characteristics
 Signal voltage high/low
 Output current

18 ... 30VDC (incl. residual ripple)
 ≤ 15% of U_B
 ≤ 30mA
 1 PNP transistor output
 light switching
 ≥ ($U_B - 2V$) / ≤ 2V
 max. 100mA

Indicators

LED yellow

light path free

Mechanical data

Housing
 Optics cover
 Weight
 Connection type

diecast zinc
 glass
 90g
 M12 connector, stainless steel
 receiver 4-pin, transmitter 4-pin

Environmental data

Ambient temp. (operation/storage)
 Protective circuit ³⁾
 VDE safety class ⁴⁾
 Protection class
 LED class
 Standards applied

-20°C ... +60°C / -30°C ... +70°C
 2, 3
 II, all-insulated
 IP 67, IP 69K ⁵⁾
 1 (acc. to EN 60825-1)
 IEC 60947-5-2

- 1) Typ. operating range limit: max. attainable range without performance reserve
- 2) Operating range: recommended range with performance reserve
- 3) 2=polarity reversal protection, 3=short-circuit protection for all outputs
- 4) Rating voltage 250VAC
- 5) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, acids and bases are not part of the test

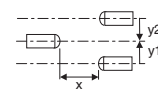
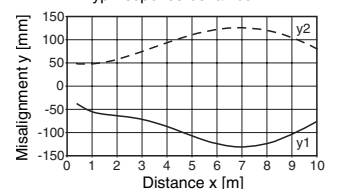
Tables

0	6	10
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Operating range [m]
 Typ. operating range limit [m]

Diagrams

Typ. response behaviour



Order guide

	Designation	Part No.
Transmitter and receiver	LSR 95/4 L	
Transmitter	LSR 95/2 SE-L	500 27991
Receiver	LSR 95/4 E-L	500 27992

Remarks