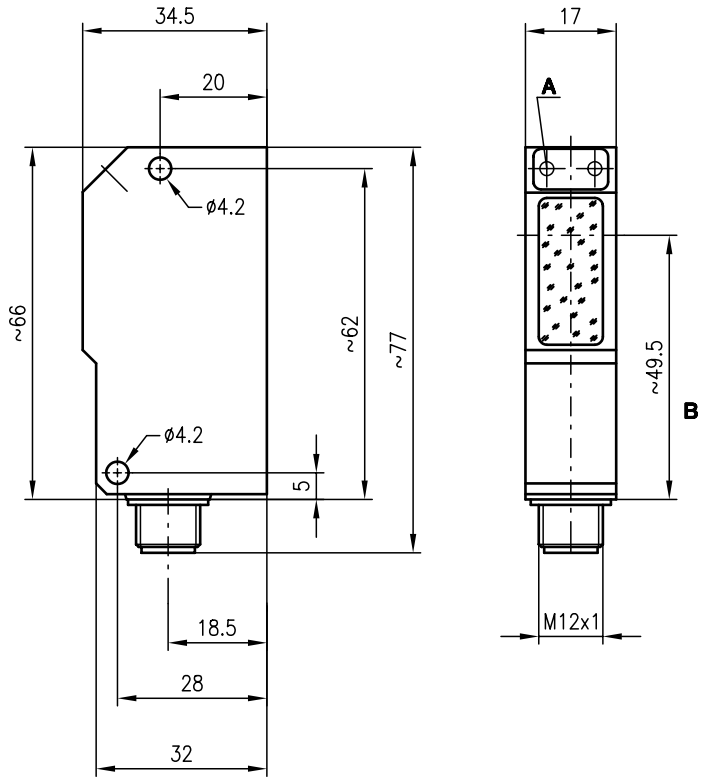
LSR 95 — Throughbeam photoelectric sensors

0 ... 10m

18 - 30 V DC

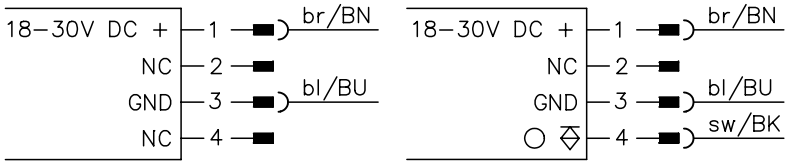
- Throughbeam photoelectric sensor with high performance reserve in red light
- Small construction with glass cover and robust zinc diecast housing, protection class IP 67 for industrial application
- Mounting holes and M12 connector for fast installation

Dimensioned drawing



A Switching indicator yellow
B Optical axis

Electrical connection



IEC 60947...
IEC 60947...

Accessories:

(available separately • see page 258)

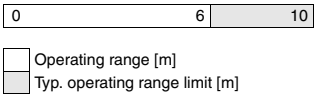
- Mounting systems (BT 95, UMS 1)
- M12 connectors (KD …)

Specifications

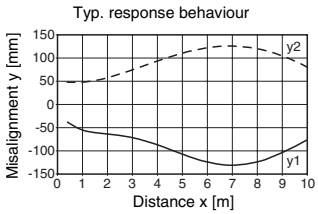
Optical data	**LSR 95/4 L**
Typ. operating range limit [1]	0 … 10m
Operating range [2]	0 … 6m
Light source	LED (modulated light)
Wavelength	660nm (visible red light)
Timing	
Switching frequency	200Hz
Response time	2.5ms
Delay before start-up	≤ 100ms
Electrical data	
Operating voltage U_B	18 … 30VDC (incl. residual ripple)
Residual ripple	≤ 15% of U_B
Bias current	≤ 30mA
Switching output	1 PNP transistor output
Function characteristics	light switching
Signal voltage high/low	≥ (U_B-2V)/≤ 2V
Output current	max. 100mA
Indicators	
LED yellow	light path free
Mechanical data	
Housing	diecast zinc
Optics cover	glass
Weight	90g
Connection type	M12 connector, stainless steel receiver 4-pin, transmitter 4-pin
Environmental data	
Ambient temp. (operation/storage)	-20°C … +60°C/-30°C …+70°C
Protective circuit [3]	2, 3
VDE safety class [4]	II, all-insulated
Protection class	IP 67
Standards applied	IEC 60947-5-2

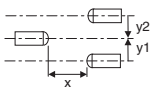
1) Typ. operating range limit: max. attainable range without performance reserve
2) Operating range: recommended range with performance reserve
3) 2=polarity reversal protection, 3=short-circuit protection for all outputs
4) Rating voltage 250VAC

Tables



Diagrams





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