

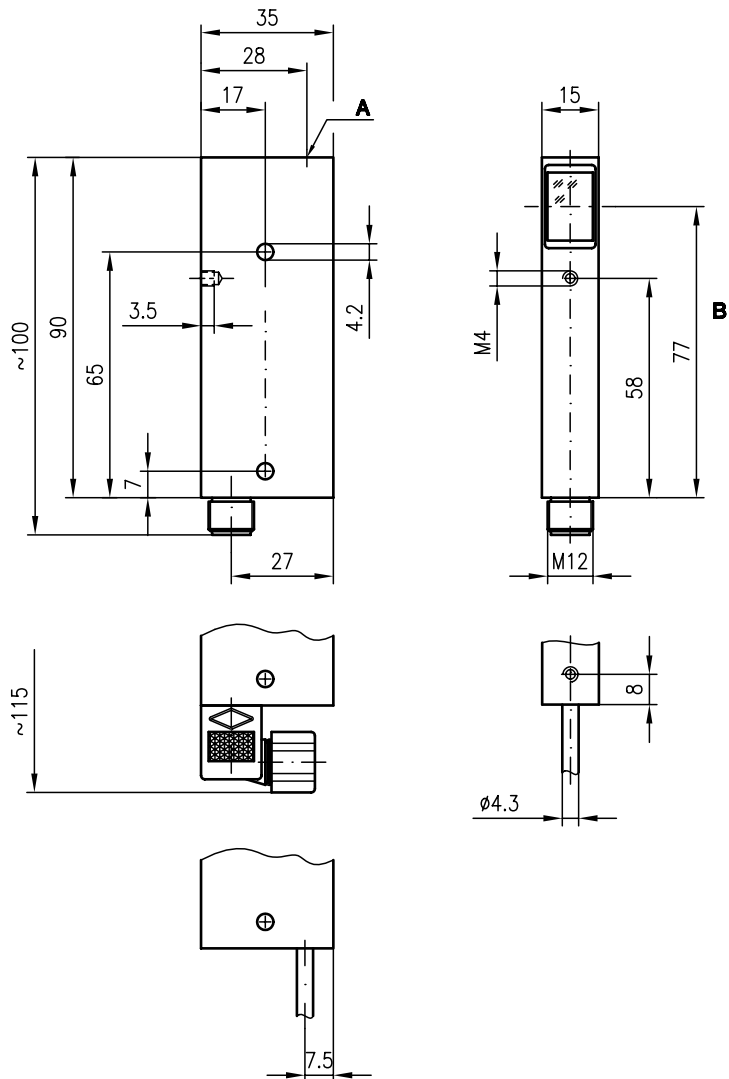


LS 72

Throughbeam photoelectric sensors



Dimensioned drawing



A Indicator diode (only at receiver)
B Optical axis



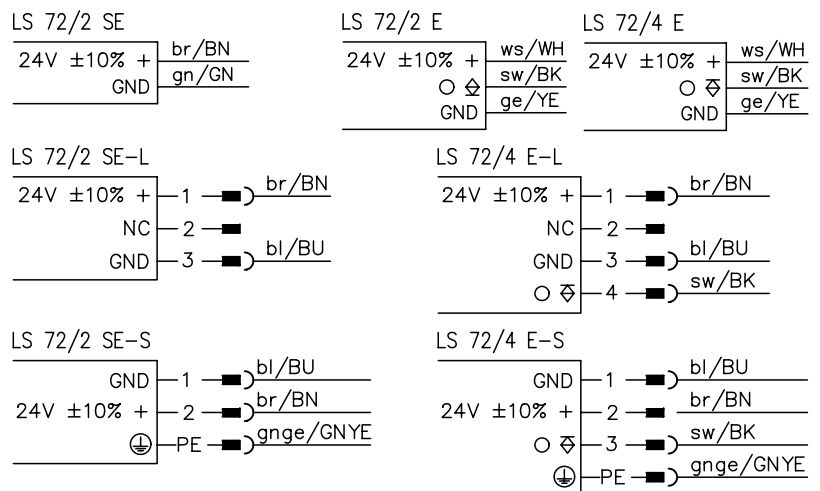
12m



- Slim construction with glass lens and robust metal housing for protection against environmental influences
- LEDs as switching state indicators
- Output is short-circuit proof and polarity reversal protected, thus guaranteeing riskless commissioning
- Mounting holes and M4 threads for fast front side mounting
- Connection via M12 connector, plug or cable



Electrical connection



We reserve the right to make changes * 72_a01e.fm

Accessories:

(available separately)

- Mounting systems (BT 92)
- M12 connectors (KD ...)
- Ready-made cables (KB ...)
- UMS 1

Specifications

Optical data

Typ. operating range limit ¹⁾	0 ... 12m
Operating range ²⁾	0 ... 8m
Light source	LED (modulated light)
Wavelength	880nm (infrared)

Timing

Switching frequency	100Hz
Response time	5ms

Electrical data

Operating voltage U_B	24VDC \pm 10% (incl. residual ripple)
Residual ripple	\leq 15% of U_B
Bias current	\leq 50mA
Switching output	PNP or NPN transistor output
Function characteristics	light switching
Signal voltage high/low	$\geq (U_B - 3V) / \leq 2V$
Output current	max. 100mA

Indicators

LED green/red	green: light path free red: light path interrupted
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Mechanical data

Housing	diecast
Weight	170g, cable device 480g
Optics	glass lens
Connection type	M12 connector 4-pin, plug 4-pin or cable (cross section 3x0.25mm ²)

Environmental data

Ambient temp. (operation/storage)	-20°C ... +60°C/-30°C ... +70°C
Protective circuit ³⁾	2, 3
Protection class	IP 67
LED class	1 (acc. to EN 60825-1)

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

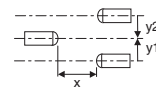
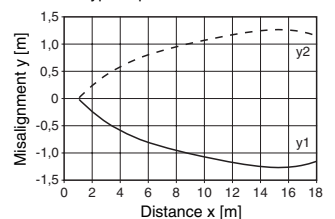
Tables

0	8	12
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	Operating range [m]
	Typ. operating range limit [m]

Diagrams

Typ. response behaviour



Order guide

Selection table		Order code →					
Equipment ↓		LS 72/2,6000	LS 72/4,6000	LS 72/4 L	LS 72/4 S		
		Part No. 500 00219 (Tr)	Part No. 500 00219 (Tr)	Part No. 500 18611 (Tr)	Part No. 500 06514 (Tr)		
		Part No. 500 00220 (Re)	Part No. 500 00223 (Re)	Part No. 500 18612 (Re)	Part No. 500 06515 (Re)		
Light source	infrared	●	●	●	●		
Connection	cable 6m	●	●				
	M12			●			
	standard plug 4-pin				●		
Indicator LED	top of housing	●	●	●	●		
Switching output	PNP		●	●	●		
	NPN	●					

Remarks