Throughbeam photoelectric sensors

ILS 95

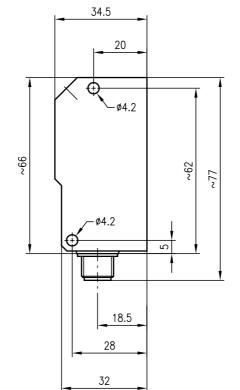




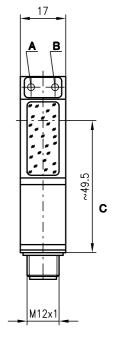
0 ... 20m

10 - 30 V <u>DC</u>

- Throughbeam photoelectric sensor with high performance reserve using visible red light or infrared light
- High switching frequency for detection of fast events
- Small construction with glass cover and robust zinc diecast housing, protection class IP 67/IP 69K for industrial application
- Complementary switching outputs for light/ dark switching or as a control function

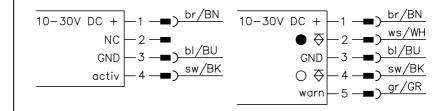


Dimensioned drawing



- A Switching indicator yellow
- B Operation indicator green
 - C Optical axis

Electrical connection





Accessories:

(available separately)

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

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Leuze electronic

ILS 95

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Specifications

Optical data

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

Timing

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Switching frequency Response time Delay before start-up

Electrical data

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

Indicators

LED green LED yellow LED yellow flashing

Mechanical data

Housing Optics cover Weight Connection type

Environmental data

Ambient temp. (operation/storage)³⁾ Protective circuit ⁴⁾ VDE safety class ⁵⁾ Protection class LED class Standards applied

Options

Activation input activ Transmitter active/not active Activation/disable delay Input resistance Warning output autoControl warn

Warning output autoControl warn Signal voltage high/low Output current

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

2) Operating range: recommended range with performance reserve

3) -30°C with operating voltage continuously applied

4) 2=polarity reversal protection, 3=short-circuit protection for all outputs

5) Rating voltage 250 VAC

6) 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

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Order guide

	Designation	Part No.
Infrared light		
Transmitter and receiver	ILS 95/44.8 L.1	
Transmitter	LS 95/2.8 SE-L.1	500 26835
Receiver	ILS 95/44 E-L.1	500 26836
Red light		
Transmitter and receiver	ILSR 95/44.8 L	
Transmitter	LSR 95/2.8 SE-L	500 25606
Receiver	ILSR 95/44 E-L	500 25608

ILS 95/44.8 L.1 Infrared light 0 ... 20m 0 ... 12m LED (modulated light) 880nm

1000Hz 0.5ms ≤ 100ms

 $\begin{array}{l} 10 \ \dots \ 30VDC \ (incl. \ residual \ ripple) \\ \leq 15\% \ of \ U_B \\ \leq 35mA \\ 2 \ PNP \ transistor \ outputs, \ complementary \\ light/dark \ switching \\ \geq (U_B - 2V)/\leq 2V \\ max. \ 100mA \end{array}$

ready light path free light path free, no performance reserve

diecast zinc glass 90g M12 connector, stainless steel receiver 5-pin, transmitter 4-pin

-25°C (-30°C) ... +60°C/-40°C ... +70°C 2, 3 II, all-insulated IP 67, IP 69K ⁶) 1 (acc. to EN 60825-1) IEC 60947-5-2

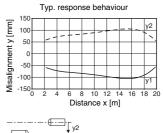
 $\begin{array}{l} \geq 8V/\leq 2V \text{ or not connected} \\ \leq 1\,ms \\ 4.7k\Omega\pm10\% \\ PNP \ transistor, counting principle \\ \geq (U_B-2V)/\leq 2V \\ max.\ 100mA \end{array}$

Tables

0 12 Operating range [m]

Typ. operating range limit [m]





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Remarks

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• The throughbeam photoelectric sensor using visible red light is also available with integrated AS-i chip for direct connection to the AS-i system.