SLSR 95

Protective throughbeam photoelectric sensor

Safety note:

- The protective throughbeam photoelectric sensor is a contactless active protective device only in connection with a safety-relevant control system, in which the cyclical testing of transmitter and receiver is carried out according to EN 61496-1, category 2 (testing).
- The power supply unit used to operate the photoelectric sensor has to be able to compensate for changes and interruptions of the supply voltage acc. to EN 61496-1. Minimum blackening object: ∅ 13mm.

Accessories

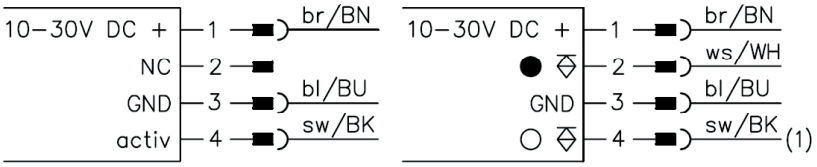
(available separately)

- Mounting systems (BT 95, UMS 1)
- M12 connectors (KD ...)
- Ready-made cables in straight or angular versions, length 5m (KB ...)
- Test-monitoring unit:
  - TNT 35 (Art. no. 500 33058)
  - TMC 66 (Art. no. 500 82121)

Features

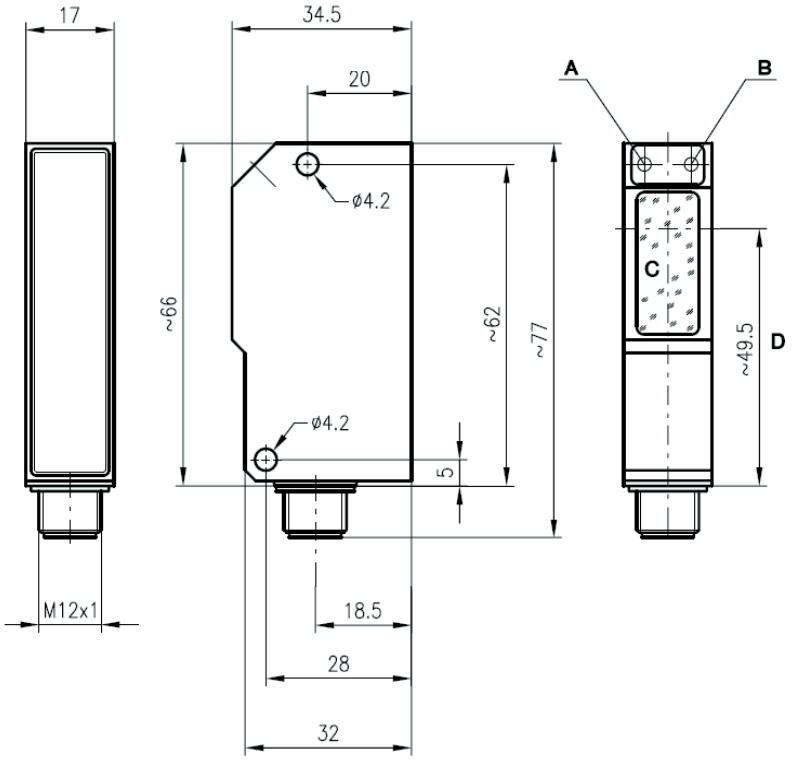
- Protective throughbeam photoelectric sensor with high performance reserve in visible red light
- Small construction with glass cover and robust zinc diecast housing, protection class IP 67 for industrial application
- Complementary outputs for light/dark switching or as a control function

Electrical Connection



(1) For operation with Leuze test-monitoring units, the photoelectric sensor must be connected in light switching mode (pin 4)

Dimensional Drawing



A Switching indicator yellow
B Operation indicator green
C Transmitter/receiver
D Optical axis

Order guide

	Designation	Art. no.
Transmitter and receiver	SLSR 95/44.8 L	
Transmitter	SLSR 95/2.8 SE-L	500 80183
Receiver	SLSR 95/44 E-L	500 80184

IP 67 IEC 60947... IEC 60947...

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Technical Data

Optical data	
Typ. operating range limit [1]	0 ... 10m
Operating range [2]	0 ... 8m
Light source	LED (modulated light)
Wavelength	660nm
Timing	
Switching frequency	200Hz
Response time	2.5ms
Delay before start-up	≤ 100ms
Electrical data	
Operating voltage U_B	10 ... 30V DC (incl. residual ripple)
Residual ripple	≤ 15% of U_B
Bias current	≤ 35mA
Switching output	2 PNP transistor outputs, complementary
Function characteristics	light/dark switching
Signal voltage high/low	≥(U_B-2V) / ≤ 2V
Output current	max. 100mA
Indicators	
Receiver	
LED green	ready
LED yellow	light path free
LED yellow flashing	light path free, no performance reserve
Transmitter	
LED green	ready
LED yellow	transmitter ON
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. (operating/storage)	-25°C (-30°C) ... +60°C/-40°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
Options	
Activation input active	
Transmitter active/not active	≥ 8V/ ≤ 2V or not connected
Activation/disable delay	≤ 1ms
Input resistance	4.76kΩ ± 10%

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