



## SLSR 95

## Protective throughbeam photoelectric sensors



0 ... 10m



- 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

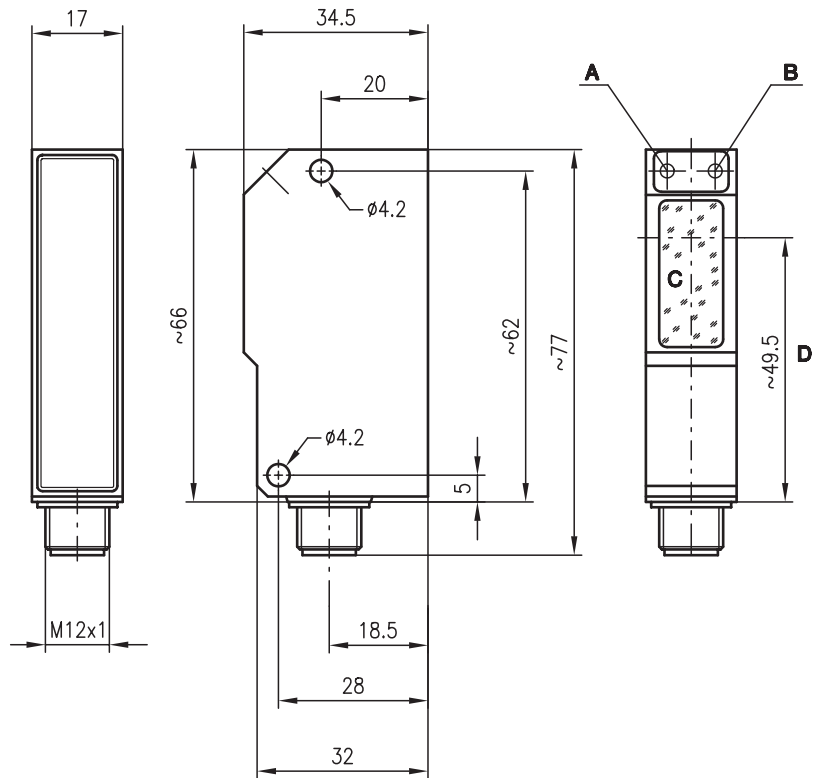


### Accessories:

(available separately)

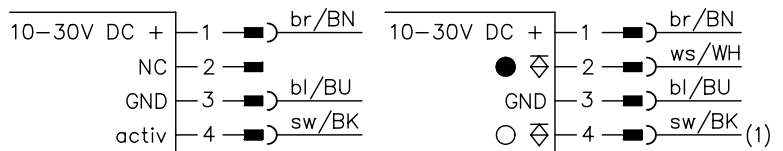
- Mounting systems (BT 95, UMS 1)
- M12 connectors (KD ...)
- Ready-made cables in straight or angular versions, length 5m (KB ...)
- Test-monitoring unit:
  - TNT 32 (Part No. 500 20476)
  - TNT 33 (Part No. 500 28158)
  - TNT 34 (Part No. 500 81023)
  - TNT 35 (Part No. 500 33058)
  - TMC 66 (Part No. 500 82121)

### Dimensioned drawing



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

### Electrical connection



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

We reserve the right to make changes • 95\_a03e.fm



## Specifications

### Optical data

Typ. operating range limit <sup>1)</sup>	0 ... 10m
Operating range <sup>2)</sup>	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 ... 30VDC (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	glass
Weight	90g
Connection type	M 12 connector, stainless steel receiver 4-pin, transmitter 4-pin

### Environmental data

Ambient temp. (operation/storage) <sup>3)</sup>	-25°C (-30°C) ... +60°C/-40°C ... +70°C
Protective circuit <sup>4)</sup>	2, 3
VDE safety class <sup>5)</sup>	II, all-insulated
Protection class	IP 67
Standards applied	IEC 60947-5-2

### Options

Activation input activ	
Transmitter active/not active	≥ 8V/≤ 2V or not connected
Activation/disable delay	≤ 1ms
Input resistance	4.7k< $\Omega$ ± 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 250VAC

## Order guide

	Designation	Part 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

## Tables

## Diagrams

## Remarks

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: Ø 13mm.