LS 763/2.8, L8.5



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 must be able to compensate for changes and interruptions of the supply voltage acc. to EN 61496-1. Minimum blackening object: Ø8mm.
- Design type: Stainless steel housing, therefore also suitable, for example, for use in the pharmaceutical industry.

Accessories

(available separately)

- Subject to change without prior notice • Mounting system (B 763) Connection cable 5m
 - axial BK7 KB-003-5000-3A
 - angled BK7 KB-003-5000-3
 - · Test-monitoring units:
 - TNT 35 (Part No. 500 33058) TMC 66 (Art.-Nr. 50082121)

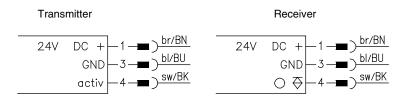


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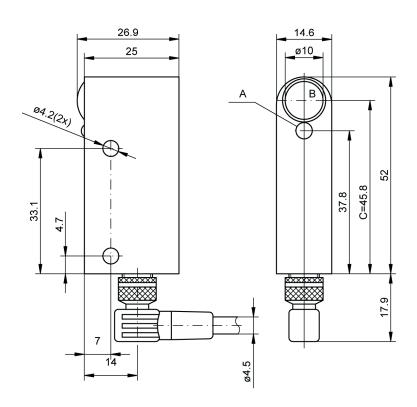
Features

- Protective throughbeam photoelectric sensor with high performance reserve in infrared • light
- Activation input for testing and interlinking
- Compact construction with shock-resistant metal housing (V2A stainless steel) and glass optics
- LED indicator in transmitter and receiver for function monitoring
- pnp transistor output for PLC applications
- Connection via M8 connector •

Electrical Connection



Dimensional Drawing



A Indicator diode

- B Transmitter/receiver
- C Optical axis

Order guide

Transmitter Receiver

Designation LS 763/2.8 Se, L8.5 LS 763/4 E, L8.5

Part No. 501 05198 501 05199

Technical Data	
Optical data	
Typ. operating range limit ¹⁾	0 8m
Operating range ²⁾	0 6m
Light source	LED (modulated light)
Wavelength	880nm
Optics diameter	10mm
Shadowing item	8mm
Eff. angle of radiation	max. ±4° acc. to EN 61496-2
Timing	
Switching frequency	100Hz
Response time	min. 5ms
Electrical data	
Operating voltage U _B ³⁾	$24VDC \pm 15\%$
Residual ripple	\leq 10% of U _B (peak/peak)
Bias current	receiver ≤ 15mA
	transmitter \leq 20mA
Switching output	pnp transistor output
Function characteristics	pnp light-on
Signal voltage high/low	$\geq (U_{B}-2V)/\leq 2V$
Output current	max. 100mA
Indicators	
Receiver	
LED red	light path interrupted
LED green	light path free
Transmitter	
LED yellow	transmitter ON
Mechanical data	
Housing	Stainless steel, V2A (1.4305), polycarbonate rear panel
Optics	mineral glass
Weight	130g
Connection type	M8 connector
Environmental data	
Ambient temp. (operation/storage)	-20°C +60°C/-30°C + 70°C
Protective circuit ⁴⁾	2,3
Protection class	IP 65
Standards applied	IEC 90647-5-2
Options	
Activation input active	
Transmitter active/not active	\geq 20V/ \leq 2V or not connected
Activation/disable delay	≤ 0.5ms
Input resistance	$10k\Omega \pm 10\%$

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

Operating range internation range with performance reserve
Operating range: recommended range with performance reserve
Functional extra-low voltage with reliable disconnection or protective extra-low voltage (VDE 0100/T 410)
2=polarity reversal protection, 3=short circuit protection