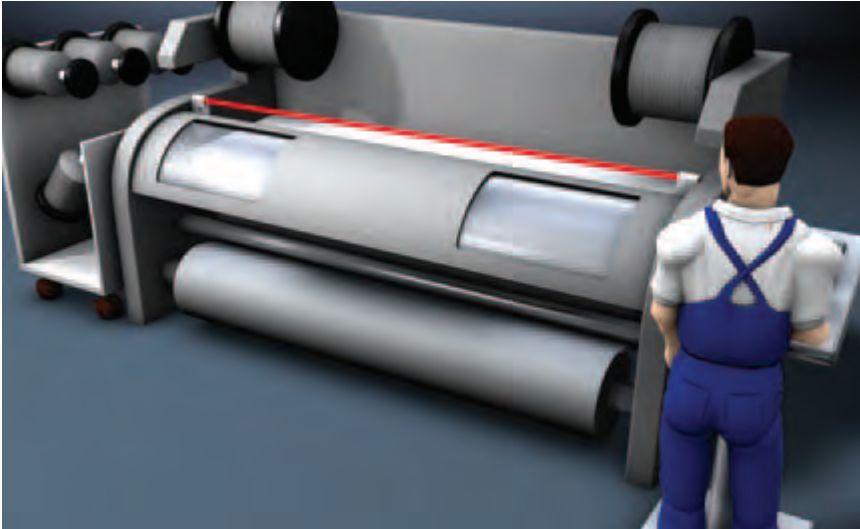


## SINGLE LIGHT BEAM SAFETY DEVICES

### LS 763



*Guarding a weaving machine with an LS 763 Single Light Beam Safety Device*

Heavy vibrations in machinery operation, as with weaving machines, for example, make heavy demands on Safety Light Barriers. On the basis of its compact construction and robustness of the impact-resistant metal housing, the LS 763 can reliably guarantee a high degree of availability, even with strong vibrations. Together with a Test Monitoring Unit, such as the TNT 35 or a configurable MSI Safety Relay, for example, the LS 763 Single Light Beam Safety Device with test input forms a type 2 active opto-electronic protective device.

#### **Typical areas of application**

- Point of operation guarding in industrial environments with especially strong machine vibrations
- Weaving machines, packaging machinery, etc.
- The LS 763/2.8 L8.5 stainless steel device model is suitable for applications in the pharmaceutical industry, for example.

**Important technical data, overview**

Type in accordance with IEC/EN 61496	On request
Category in accordance with EN ISO 13849	2
Operating range	0...6 m
Operating voltage, U <sub>B</sub>	24 V DC ± 15 %
Dimensions (WxHxD)	27 mm x 14.6 mm x 52 mm
Housing	Metal/stainless steel V2A (1.4305)
Switching output	pnp transistor output
Connection system	Cable, 2.5 m M8 round pin plug

**Functions**

LED display
Activation input for test and series connection

**Function extension**

With Safety Interface	Relay output	RES	EDM	Muting	Further details
TNT 35	●	●	●		p. 478
MSI-s	●	●	●		p. 450
MSI-sx	●	●	●		p. 450
MSI-m	●	●	●	●	p. 464

**Special features**

- Compact construction with impact-resistant metal housing and glass optics
- Infrared Single Light Beam Safety Device with high functional reserve
- LED display for function monitoring in transmitter and receiver
- Flexible PUR connection cable for industrial use or connection via M8 round pin plug connection



**Features**



Further information	Page
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## SINGLE LIGHT BEAM SAFETY DEVICES

### Ordering information

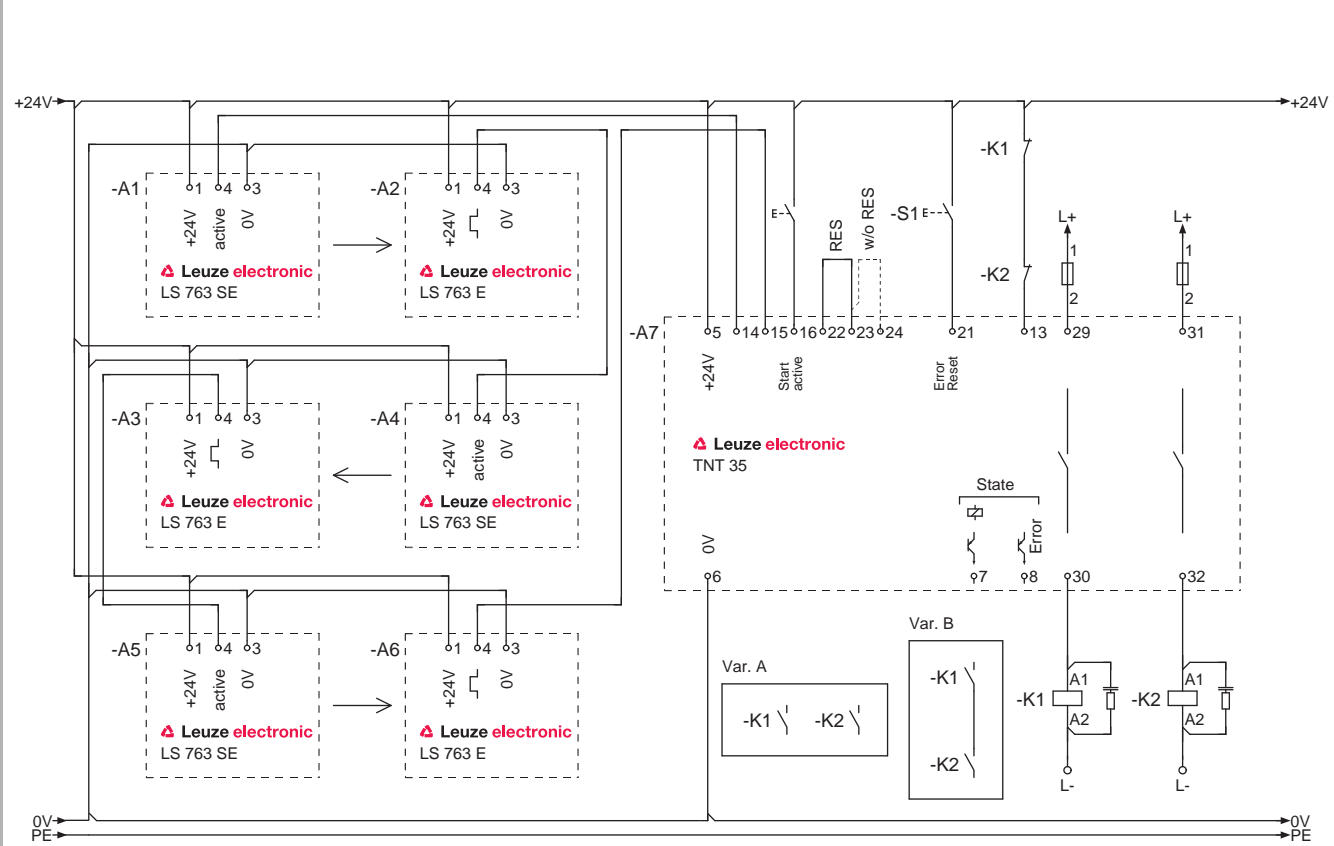
**LS 763**, consisting of transmitter and receiver

**Functions:** Activation input for test and series connection

Art. no.	Article	Description	Connection system
50027465	LS 763/2.8 Se, 2500	Transmitter	Cable, 2.5 m
50027466	LS 763/4 E, 2500	Receiver	Cable, 2.5 m
50081024	LS 763/2.8 SE-L8	Transmitter	M8 round pin plug, 3-pin
50081025	LS 763/4 E-L8	Receiver	M8 round pin plug, 3-pin
50105198	LS 763/2.8 Se, L8.5	Transmitter with impact-resistant metal housing (V2A stainless steel)	M8 round pin plug, 3-pin
50105199	LS 763/4 E, L8.5	Receiver with impact-resistant metal housing (V2A stainless steel)	M8 round pin plug, 3-pin

Electrical connection

LS 763 connection example



LS 763 series connection with TNT 35 Test Monitoring Unit

⚠ Please observe the operating instructions of the components!

Machine Safety

Machine Safety Services

Safety Engineering Software

Safety Laser Scanners

Safety Light Curtains

Multiple Light Beam Safety Devices

Safety Sensor Sets

Single Light Beam Safety Devices

AS-Interface Safety at Work

PROFIsafe Sensors

## SINGLE LIGHT BEAM SAFETY DEVICES

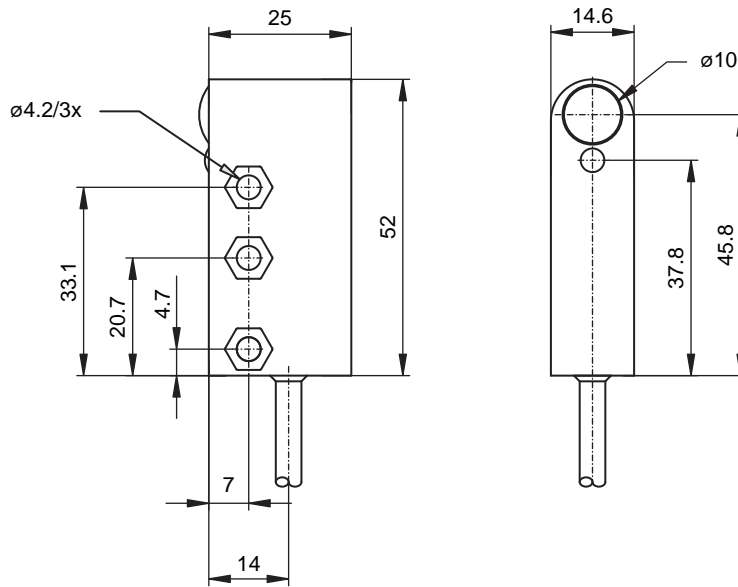
### Technical data

General system data	
Type in accordance with IEC/EN 61496	On request
Service life ( $T_M$ ) in accordance with EN ISO 13849-1	20 years
Category in accordance with EN ISO 13849	2
Mean time to dangerous failure ( $MTTF_d$ ) in accordance with EN ISO 13849-1	301 years
Operating range	0...6 m
Response time	5 ms
Operating voltage, $U_B$	24 V DC $\pm$ 15 %
Safety class	II
Protection rating	IP 67
Ambient temperature, operation	-20...+60°C
Ambient temperature, storage	-30... +70°C
Dimensions (WxHxD)	27 mm x 14.6 mm x 52 mm
Housing	Metal/stainless steel V2A (1.4305), polycarbonate rear panel
Weight (transmitter and receiver)	40 g (plug variant), 100 g (cable variant)
Transmitter	
Current consumption	20 mA
Transmitter diodes, class in accordance with EN 60825	1
Light source	Infrared light
Wavelength	880 nm
Activation input for test and series connection	24 V DC Active $\geq$ 8 V Inactive $\leq$ 2 V
Connection system	Cable, 2.5 m M8 round pin plug, 3-pin
Receiver	
Current consumption	15 mA without external load
Connection system	Cable, 2.5 m M8 round pin plug, 3-pin
Switching output	pnp transistor output
Switching voltage high active	Min. $U_v - 2$ V
Switching voltage low	Max. 2 V
Output current	Max. 100 mA
Connection system	Cable, 2.5 m M8 round pin plug, 3-pin

Please note the additional information at [www.leuze.com/sls](http://www.leuze.com/sls).

**Dimensional drawings**

**LS 763 Single Light Beam Safety Device**



Dimensions in mm