



**Model Number**

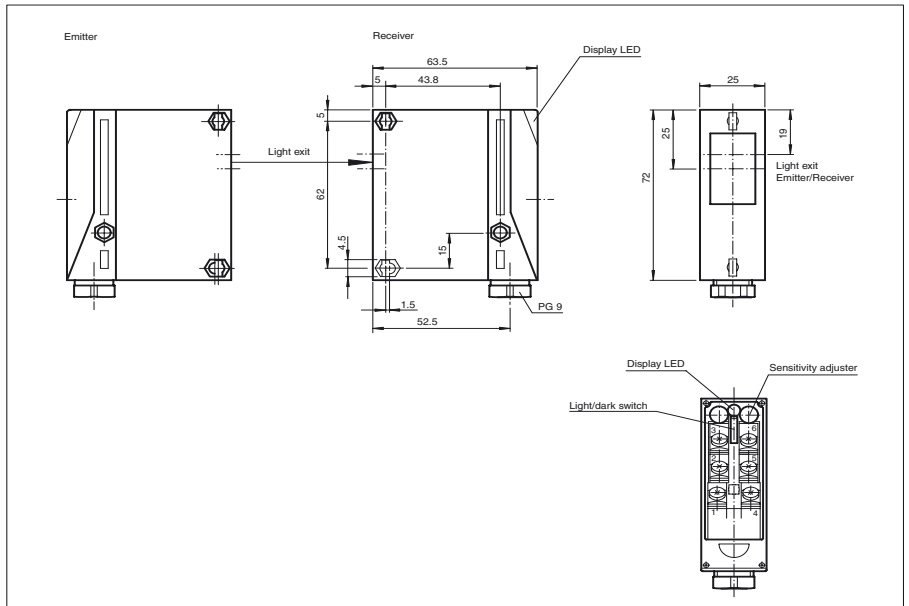
**L25/LV25/49/116**

Thru-beam sensor  
with terminal compartment

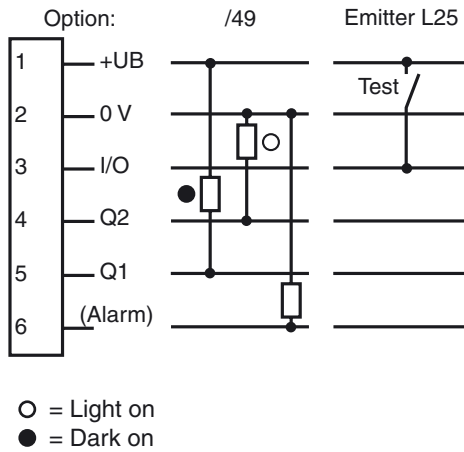
**Features**

- Detection range up to 45 m
- Compact design
- Sensitivity adjuster and light-/dark switch
- Pre-fault indication and output
- Test input

**Dimensions**



**Electrical connection**



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## Technical data

### General specifications

Effective detection range	0 ... 10 m
Threshold detection range	20 m
Light source	IREd
Approvals	CE, cULus
Obstacle size	18 mm
Light type	infrared, modulated light
Diameter of the light spot	350 mm at a distance of 10 m
Angle of divergence	Emitter: approx. 2 °, receiver: approx. 4 °
Ambient light limit	100000 Lux

### Indicators/operating means

Function display	LED green, lights up when light beam is free/flashes when falling short of the stability control
Operating elements	Light/dark switch (receiver)
Operating elements	sensitivity adjuster (emitter)

### Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current	$I_0$ 40 mA (device)

### Input

Test input	Emitter deactivation
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### Output

Output of the pre-fault indication	1 pnp
Switching type	Light/dark ON, switchable
Signal output	1 npn, 1 pnp synchronised-switching, short-circuit proof, protected against reverse polarity
Switching voltage	30 V DC
Switching current	max. 200 mA
Switching frequency	f 250 Hz
Response time	2 ms

### Standard conformity

Standards	EN 60947-5-2
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### Ambient conditions

Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

### Mechanical specifications

Protection degree	IP65
Connection	terminal compartment
Material	
Housing	Terluran GV15
Optical face	glass
Mass	90 g (device)

## Curves/Diagrams

