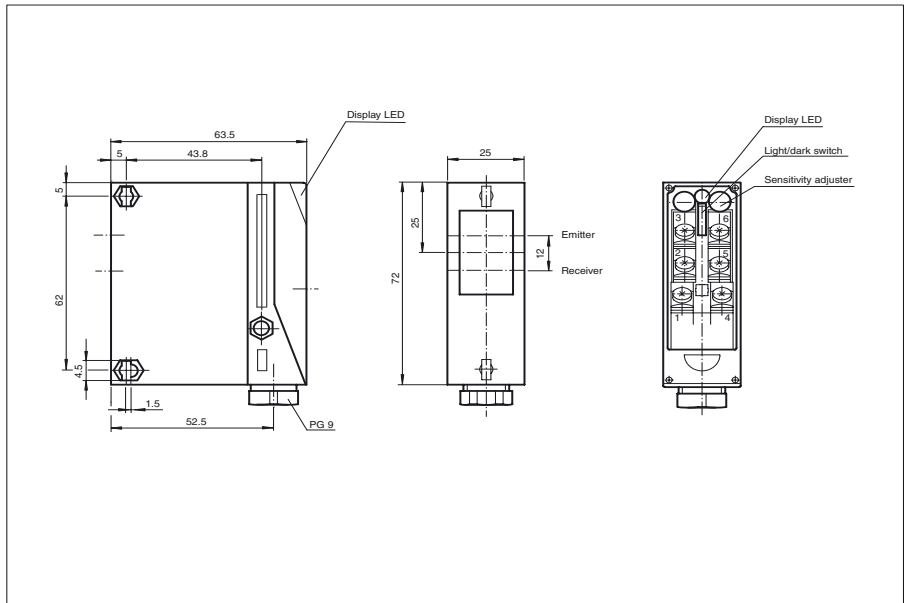




**Dimensions**



**Model Number**

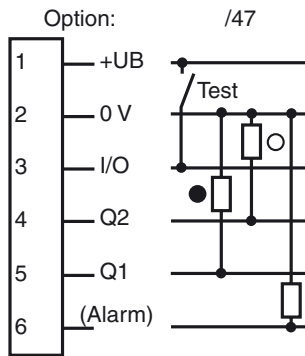
**RL25-8-H-300/47/116**

Diffuse mode sensor with background suppression  
with terminal compartment

**Features**

- Compact design
- Pre-fault indication and output
- Sensing range adjuster and light/dark switch

**Electrical connection**



- = Light on
- = Dark on

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## Technical data

### General specifications

Detection range	20 ... 300 mm
Detection range min.	10 ... 100 mm
Detection range max.	20 ... 300 mm
Light source	IRED
Black/White difference (6 %/90 %)	< 10 %
Approvals	CE, cULus
Adjustment range	
Light type	infrared, modulated light
Diameter of the light spot	approx. 10 mm at a distance of 300 mm
Angle of divergence	approx. 2 °
Ambient light limit	50000 Lux

### Indicators/operating means

Function display	LED green, lights up with receiver lit , flashes when falling short of the stability control
Operating elements	Light/dark switch
Operating elements	sensing range adjuster

### Electrical specifications

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

### Input

Test input	emitter deactivation at +U <sub>B</sub>
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### Output

Output of the pre-fault indication	1 pnp, inactive when falling short of the stability control
Switching type	light/dark switching
Signal output	2 pnp, antivalent, short-circuit proof, protected against reverse polarity
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Switching frequency $f$	50 Hz
Response time	10 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

## Curves/Diagrams

