



Model Number

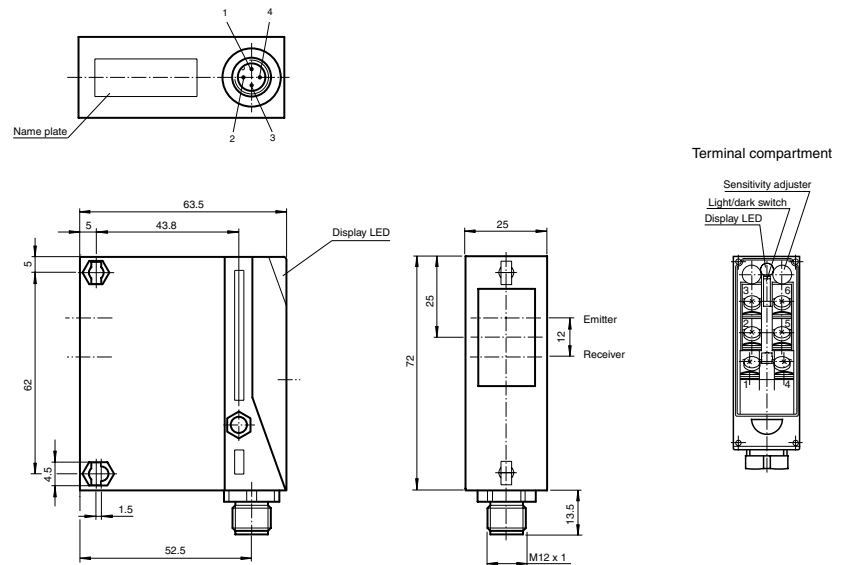
RL25-8-2000/49/92

Diffuse mode sensor
with M12, 4-pin metal connector

Features

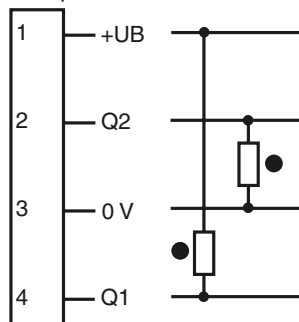
- Compact design
- Pre-fault indication
- Sensing range adjuster and light/dark switch

Dimensions



Electrical connection

Option: /49



○ = Light on

● = Dark on

Technical data

General specifications

Detection range	10 ... 2000 mm
Adjustment range	600 ... 2000 mm
Reference target	standard white 100 mm X 100 mm
Light source	IRED
Light type	modulated infrared light
Approvals	CE, cULus
Diameter of the light spot	approx. 70 mm at a distance of 2000 mm
Angle of divergence	approx. 2 °
Ambient light limit	30000 Lux

Indicators/operating means

Function display	LED green, lights up with receiver lit, flashes when falling short of the stability control
Controls	Detection range adjuster
Controls	Light/Dark switch

Electrical specifications

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

Output

Switching type	light/dark on switchable	
Signal output	1 NPN, 1 PNP synchronized-switching, short-circuit protected, reverse polarity protected	
Switching voltage	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 (-4 ... 140 °F)
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)

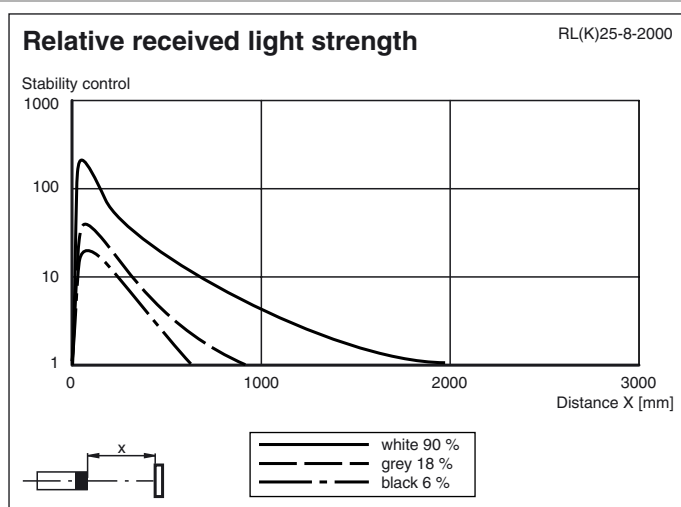
Mechanical specifications

Protection degree	IP65
Connection	M12 connector, 4-pin
Material	
Housing	Terluran GV15
Optical face	glass
Mass	90 g

Approvals and certificates

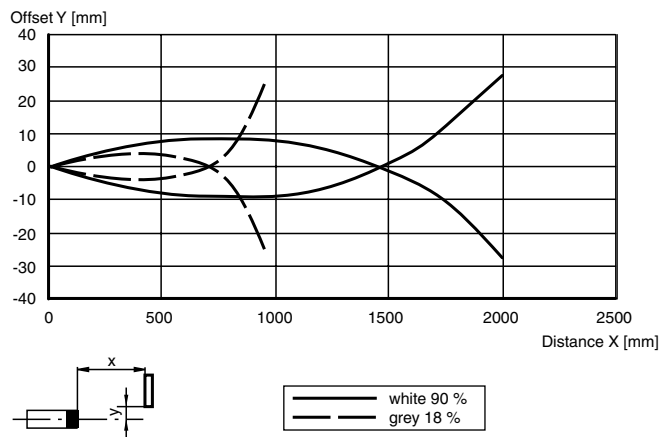
CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.
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Curves/Diagrams



Characteristic response curve

RL(K)25-8-2000

**Detection ranges**

RL(K)25-8-2000

