



Model Number

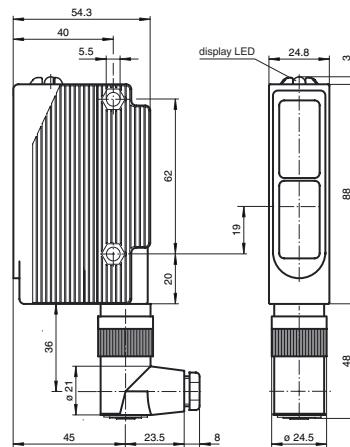
RLF23-8-H-300-RT-1987/25/F2

Background suppression sensor
with 4-pin, M18 x 1 plastic connector

Features

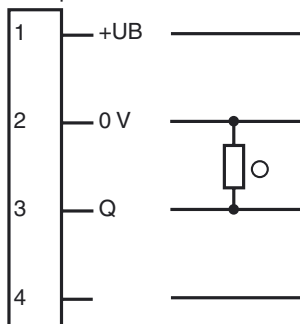
- Special range of application: Specialised fine positioning
- Adjustable background suppression
- Different frequencies, no mutual interference
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

Dimensions



Electrical connection

Option: 1987



○ = Light on

● = Dark on

Technical data

General specifications

Detection range	70 ... 300 mm
Detection range min.	70 ... 100 mm
Detection range max.	70 ... 300 mm
Light source	LED
Light type	modulated visible red light
Black/White difference (6 %/90 %)	< 5 %
Approvals	CE
USA	UL
Canada	UL
Transmitter frequency	1.4 kHz
Diameter of the light spot	4 mm at 200 mm sensor range
Angle of divergence	1.2 °
Ambient light limit	60000 Lux

Indicators/operating means

Function display	LED yellow, lights up with receiver lit
Controls	Detection range adjuster

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	100 mA

Output

Switching type	light on	
Signal output	1 PNP, short-circuit protected, reverse polarity protected	
Switching voltage	30 V DC	
Switching current	max. 200 mA	
Switching frequency	f	70 Hz
Response time	5 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	Plastic connector M18, 4-pin with unwired angled cable socket
Material	
Housing	Terluran GV15
Optical face	glass
Mass	180 g (device)

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.

Curves/Diagrams

