



Model Number

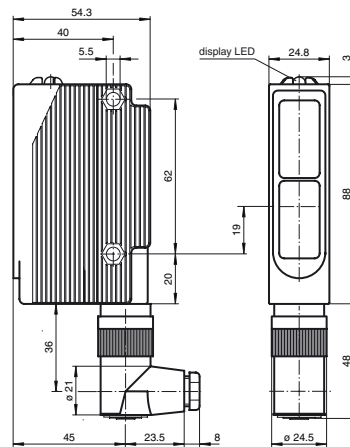
RLF23-8-H-300-RT-1987/25/F1

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

Features

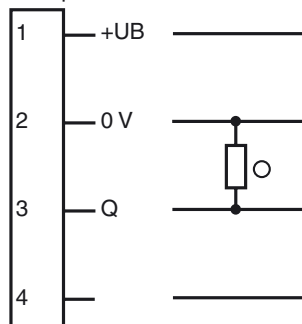
- Special range of application: Specialised fine positioning
- Adjustable background suppression
- Different frequencies, no mutual interference
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

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	1.8 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

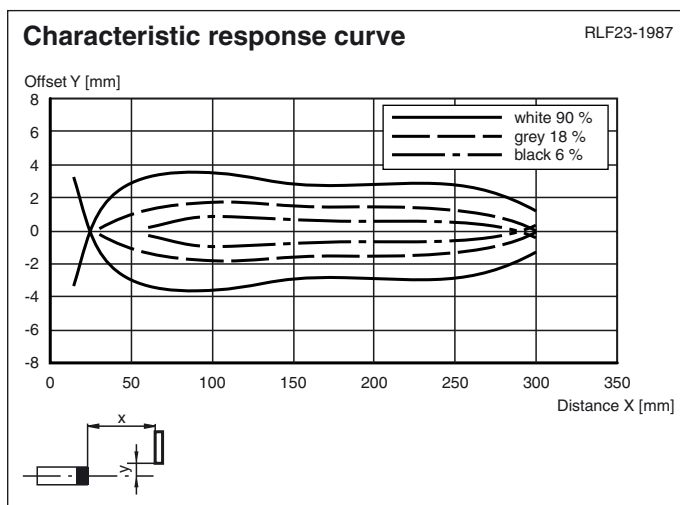
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)

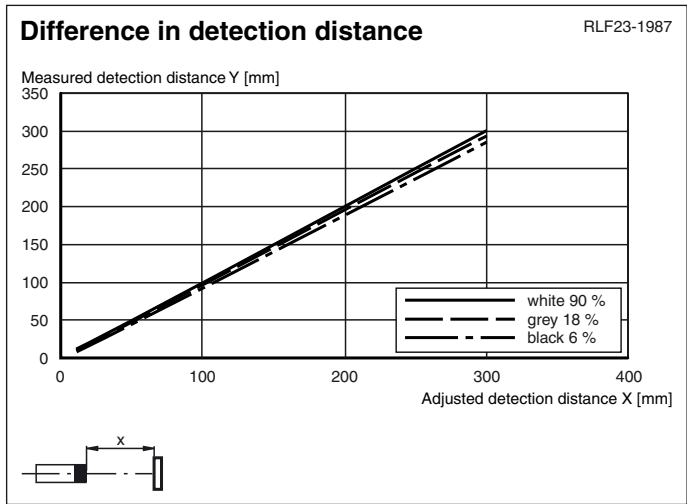
Mechanical specifications

Protection degree	IP65
Connection	Plastic connector M18, 4-pin with unwired angled cable socket
Material	
Housing	Terluran GV15
Optical face	glass
Mass	180 g

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



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