



RLF23-8-H-300-RT-1987/59/F1

Reflection light scanner with background suppression

RLF23-8-H-300-RT-1987/59/F1

with 4-pin, M18 x 1 plastic connector



- ◆ **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**

General specifications

Detection range	70 ... 300 mm
Detection range min.	70 ... 100 mm
Detection range max.	70 ... 300 mm
Light source	LED
Black/White difference (6 %/90 %)	< 5 %
Approvals	CE
USA	UL
Kanada	UL
Transmitter frequency	1.8 kHz
Light type	red, modulated light
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
Operating elements	sensing range adjuster

Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current I ₀	100 mA

Output

Switching type	dark ON
Signal output	1 pnp, short-circuit proof, protected against reverse polarity
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 (253 ... 333 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

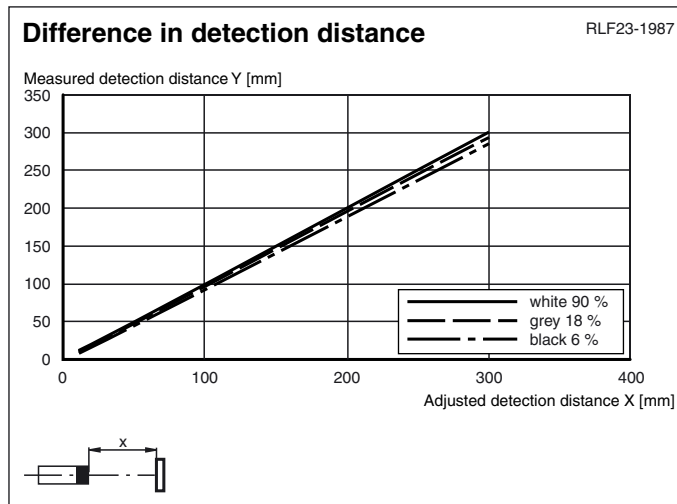
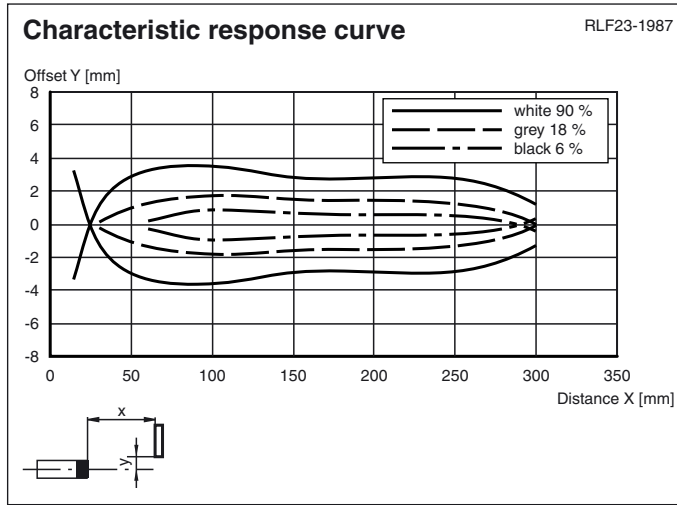
Mechanical specifications

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

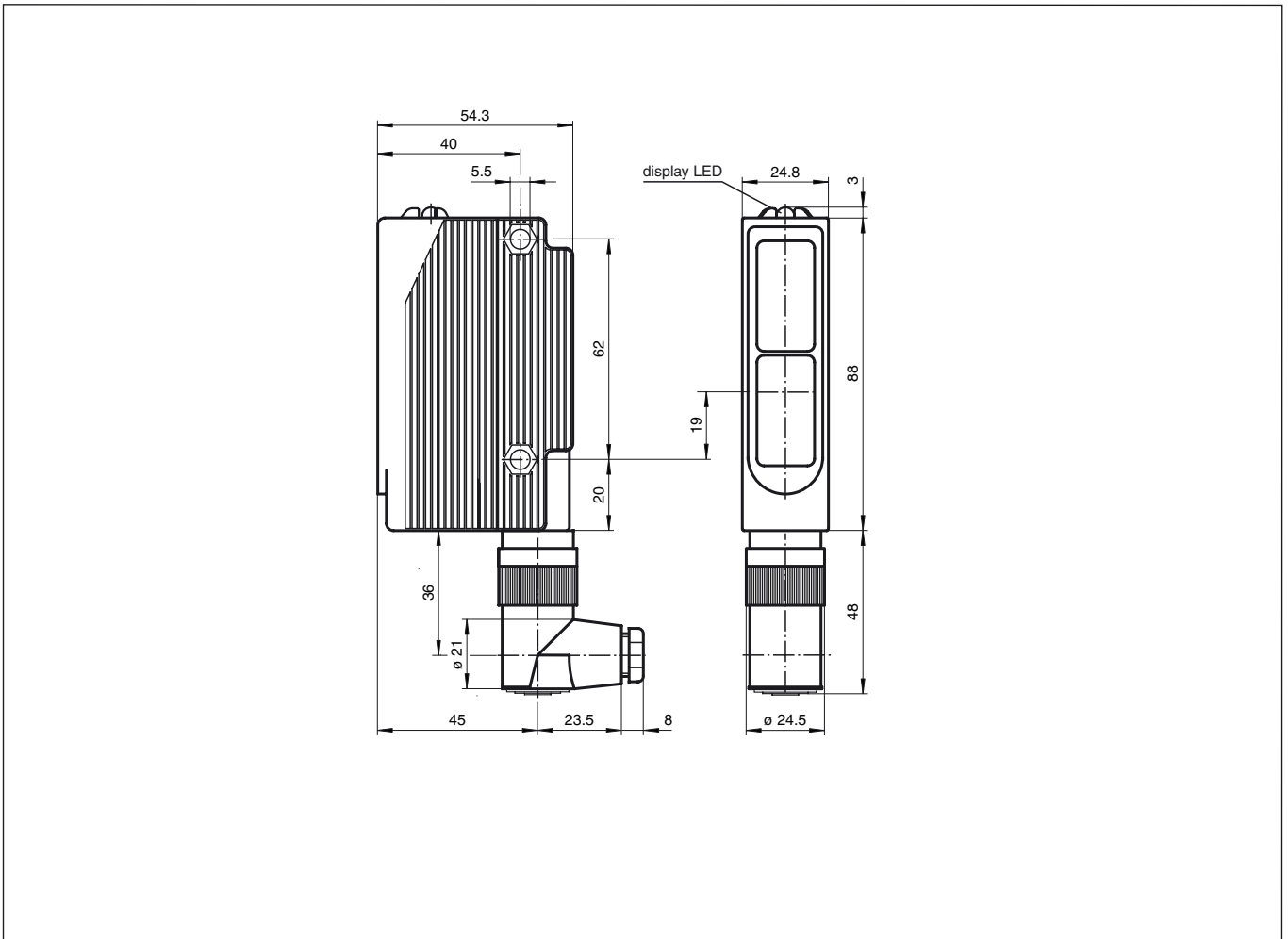
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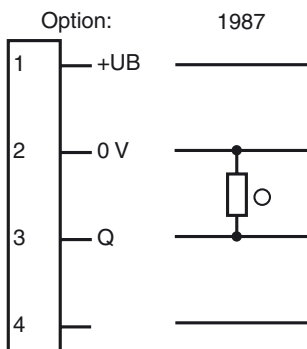
Curves/Diagrams



Dimensions



Electrical connection



○ = light on, ● = dark on