



Model Number

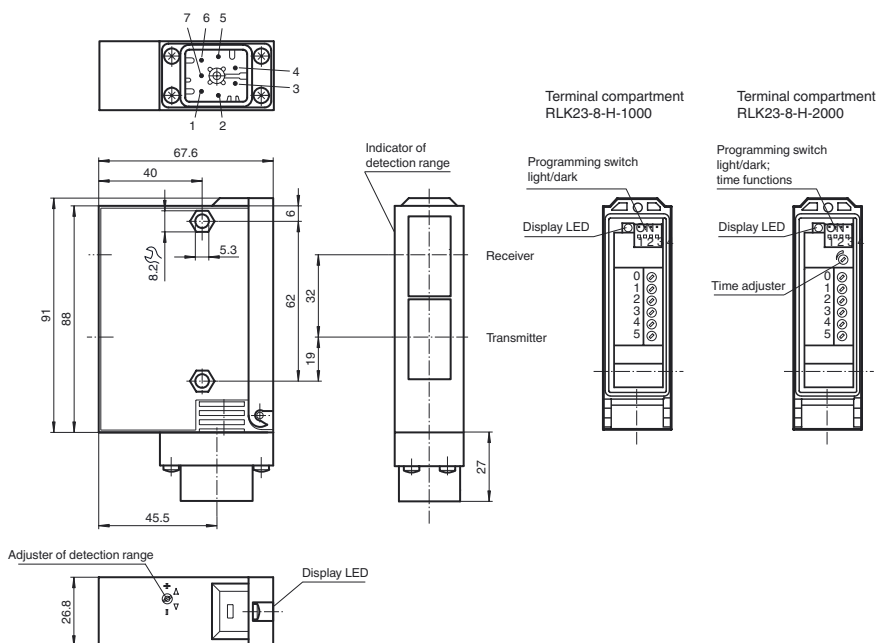
RLK23-8-H-1000-IR/31/100d

Background suppression sensor
with 7-pin surface-mounted connector up to
250 VAC

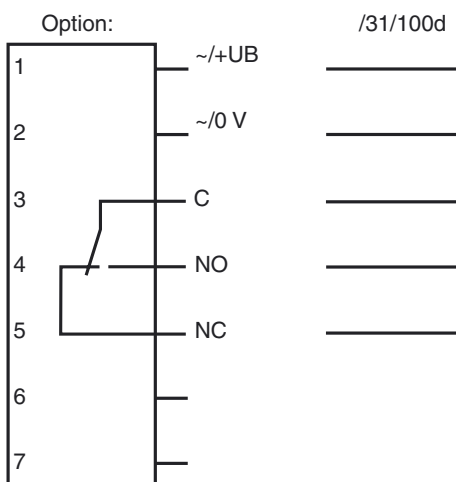
Features

- Adjustable background suppression
- Infrared light
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

Dimensions



Electrical connection



Technical data

General specifications

Detection range	50 ... 1000 mm
Detection range min.	50 ... 150 mm
Detection range max.	50 ... 1000 mm
Light source	IREd
Light type	modulated infrared light
Black/White difference (6 %/90 %)	< 10 %
Diameter of the light spot	25 mm at 1000 mm sensor range
Angle of divergence	1.5 °
Ambient light limit	12000 Lux

Functional safety related parameters

MTTF _d	850 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function display	LED yellow, lights up with receiver lit
Controls	Programming switch for light/dark switching
Controls	Detection range adjuster

Electrical specifications

Operating voltage	U _B	12 ... 240 V AC , 10 ... 30 V DC (automatic adaption to +UB)
Power consumption	P ₀	3 VA

Output

Switching type	light/dark on
Signal output	1 relay, 1 alternator
Switching voltage	max. 240 V AC
Switching current	max. 2 A
Switching frequency	f 10 Hz
Response time	50 ms

Ambient conditions

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

Mechanical specifications

Protection degree	IP65
Connection	7-pin surface-mounted connector, up to 250 VAC (without cable socket)
Material	
Housing	Terluran GV15
Optical face	glass
Mass	180 g

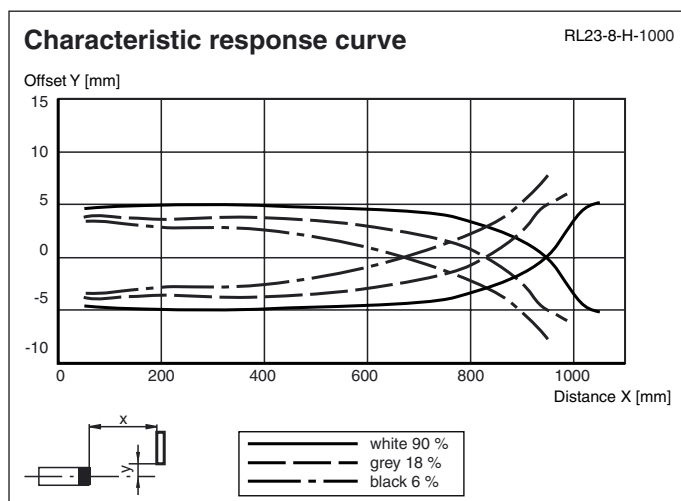
Compliance with standards and directives

Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval	cULus
CCC approval	Certified by China Compulsory Certification (CCC)

Curves/Diagrams



Accessories

OMH-05

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-07

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-21

Mounting bracket

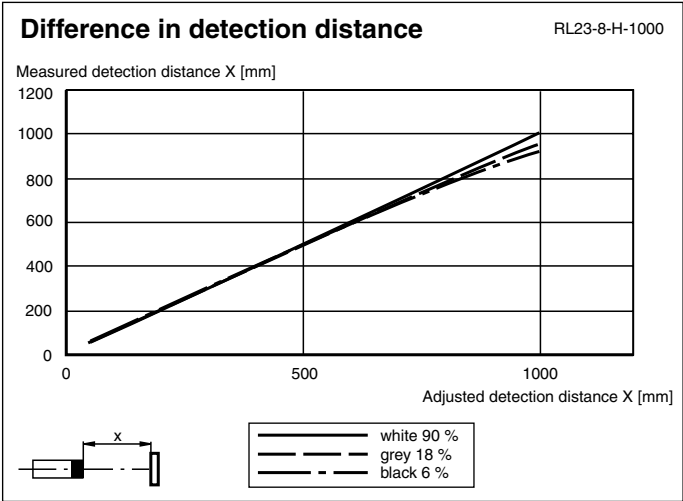
OMH-22

Mounting bracket

OMH-RLK29-HW

Mounting bracket for rear wall mounting

Other suitable accessories can be found at www.pepperl-fuchs.com



Light/Dark switch

ON 	Dark on
ON 	Light on