



Model Number

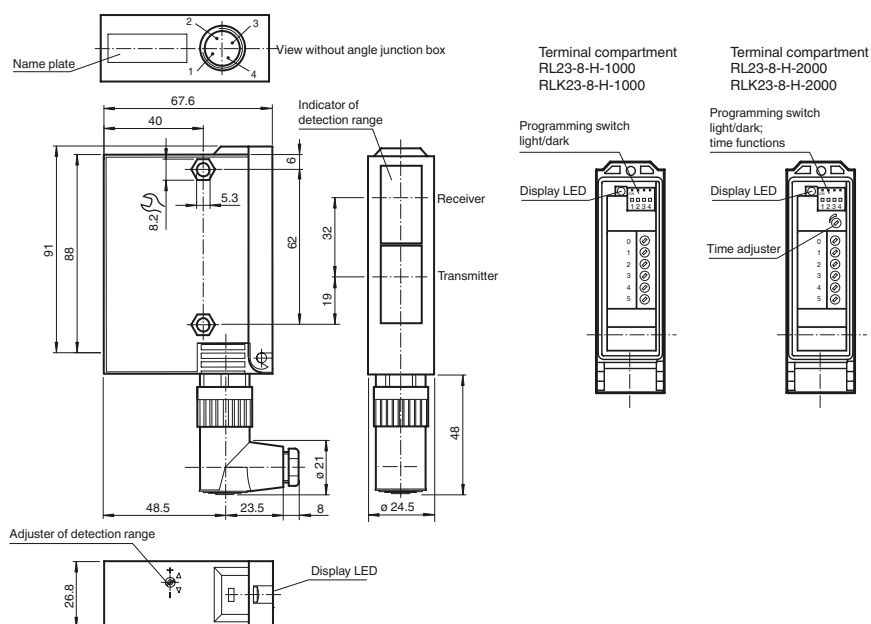
RLK23-8-H-1000-IR/31/74a

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

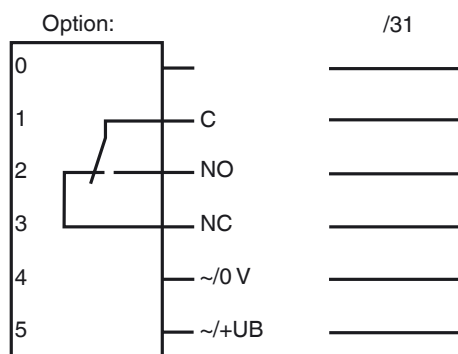
Features

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

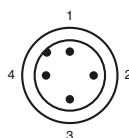
Dimensions



Electrical connection



Pinout



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 indicator	LED yellow, lights up with receiver lit
Control elements	Programming switch for light/dark switching
Control elements	Sensing range adjuster

Electrical specifications

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

Output

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

Conformity

Product standard	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

Housing width	26.8 mm
Housing height	91 mm
Housing depth	67.6 mm
Degree of protection	IP65
Connection	Connector M18 x 1, 4-pin with unwired angled cable socket
Material	
Housing	Terluran® GV15
Optical face	glass
Mass	180 g

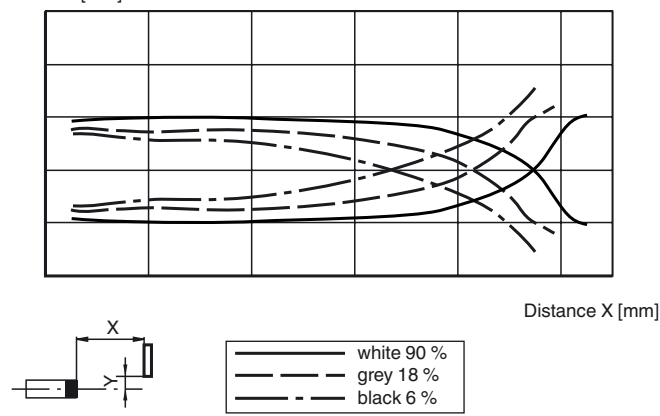
Approvals and certificates

EAC conformity	TR CU 020/2011 TR CU 004/2011
UL approval	cULus
CCC approval	Certified by China Compulsory Certification (CCC)

Curves/Diagrams

Characteristic response curve

Offset Y [mm]



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

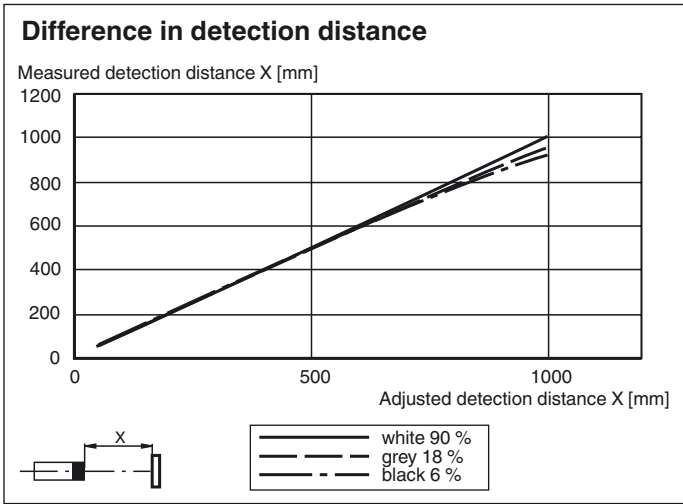
OMH-22

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 1 2 3 4	Dark on
ON 1 2 3 4	Light on