

Background suppression sensor RLK23-8-H-500-RT/31/116

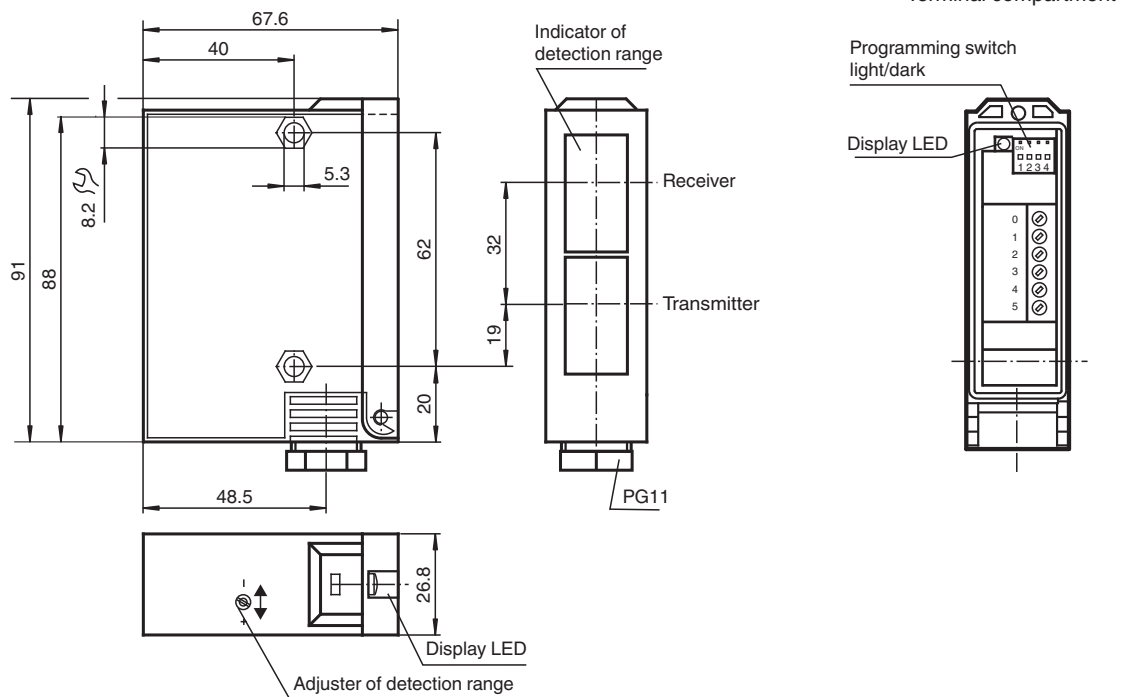


- Adjustable background suppression
- Visible red light
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

Background suppression sensor



Dimensions



Technical Data

General specifications

Detection range	50 ... 500 mm
Detection range min.	50 ... 150 mm
Detection range max.	50 ... 500 mm
Light source	LED
Light type	modulated visible red light
Black-white difference (6 %/90 %)	< 5 %
Diameter of the light spot	12 mm at 500 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 +U _B)
Power consumption	P ₀	3 VA

Output

Switching type		light/dark on switchable
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

Conformity

Product standard	EN 60947-5-2
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Approvals and certificates

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

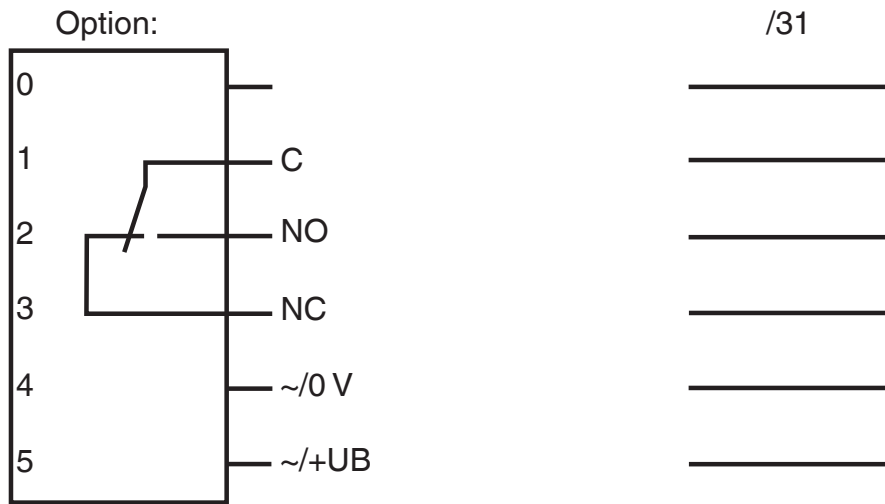
Ambient conditions

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

Mechanical specifications

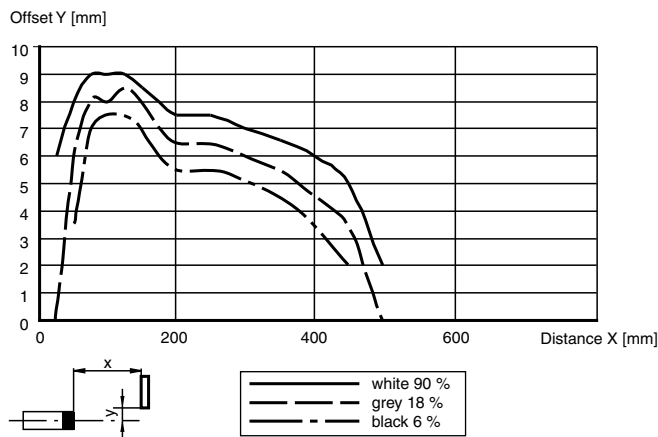
Housing width	26.8 mm
Housing height	91 mm
Housing depth	67.6 mm
Degree of protection	IP65
Connection	terminal compartment
Material	
Housing	Terluran® GV15
Optical face	glass
Mass	180 g

Connection Assignment

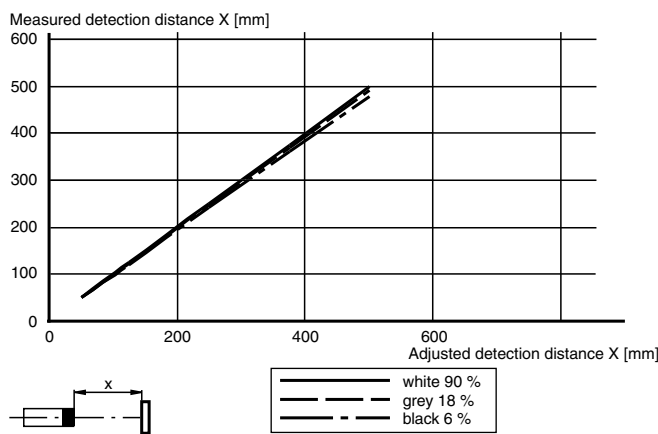


Characteristic Curve

Characteristic response curve



Difference in detection distance



Accessories

	OMH-05	Mounting aid for round steel $\varnothing$ 12 mm or sheet 1.5 mm ... 3 mm
	OMH-21	Mounting bracket

Accessories

	OMH-22	Mounting bracket
	OMH-RLK29-HW	Mounting bracket for rear wall mounting

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Light-on/dark-on changeover switch

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

Accessories

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

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