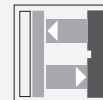




Background suppression sensor RLK23-8-H-1000-IR/31/135

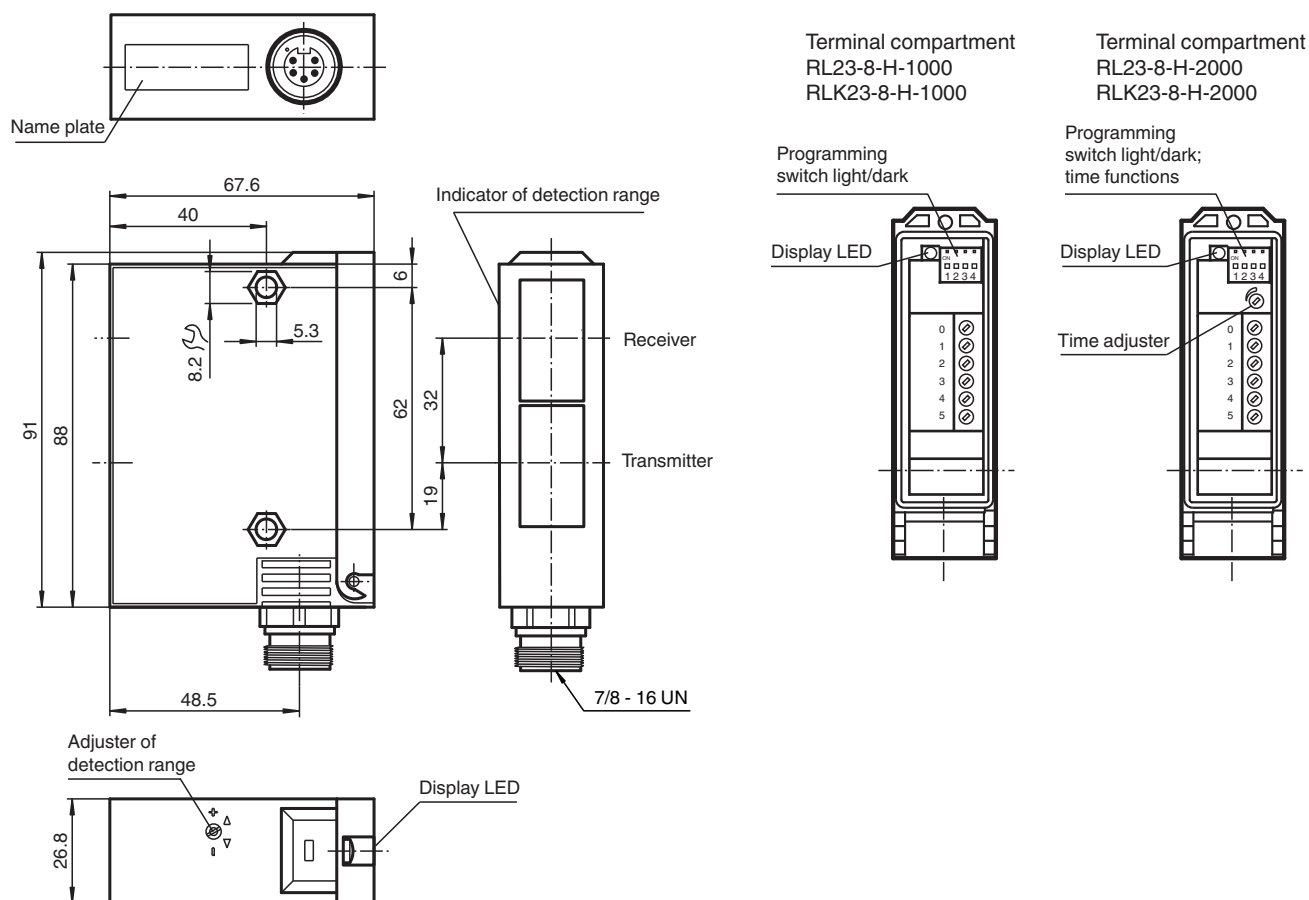


- Adjustable background suppression
- Infrared light
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

Background suppression sensor



Dimensions



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

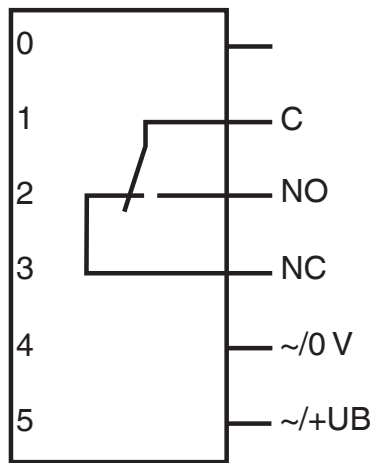
Output

Technical Data

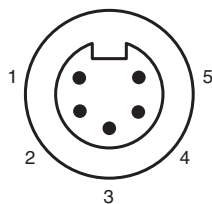
Switching type		light/dark on
Signal output		1 relay output, 1 alternator
Switching voltage		max. 240 V AC
Switching current		max. 2 A
Switching frequency	f	10 Hz
Response time		50 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
UL approval		cULus
CCC approval		Certified by 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		5-pin mini connector
Material		
Housing		Terluran® GV15
Optical face		glass
Mass		180 g

Connection Assignment

Option:



Connection Assignment

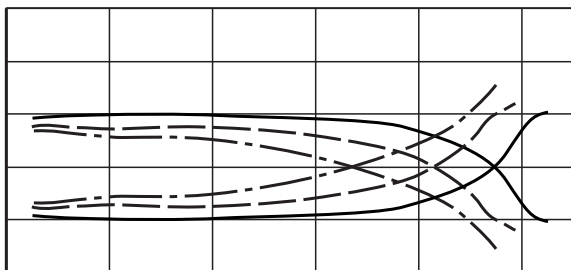


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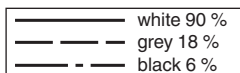
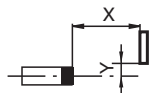
Characteristic Curve

Characteristic response curve

Offset Y [mm]

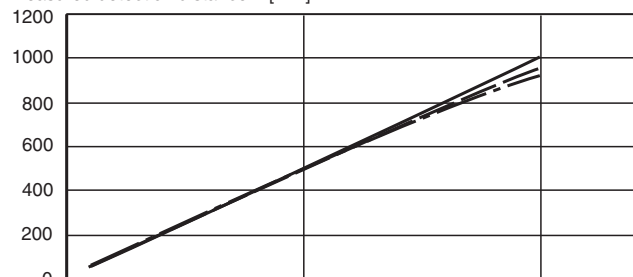


Distance X [mm]

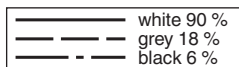
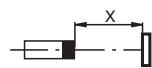


Difference in detection distance

Measured detection distance X [mm]



Adjusted detection distance X [mm]



Accessories

	OMH-05	Mounting aid for round steel $\varnothing$ 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

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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