



**Model Number**

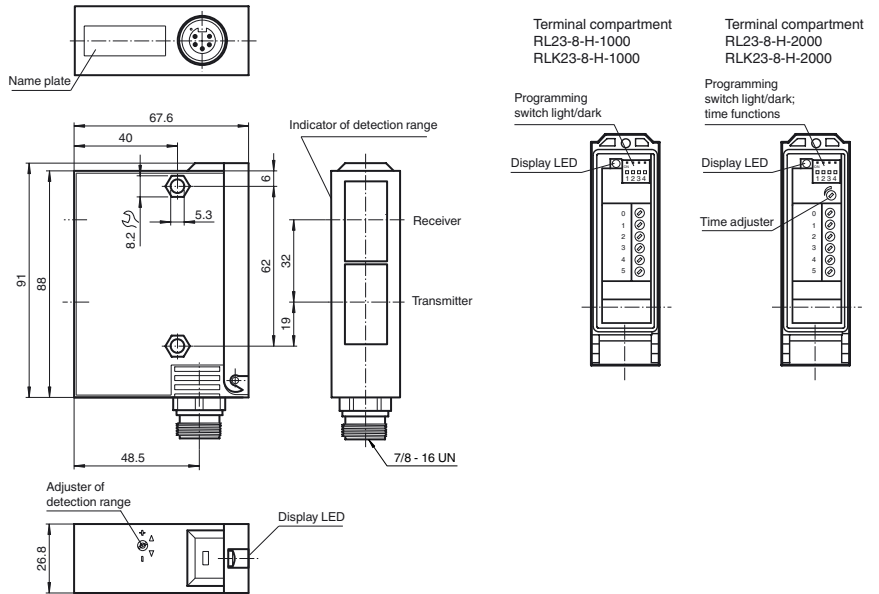
**RLK23-8-H-1000-IR/31/135**

Background suppression sensor with terminal compartment

**Features**

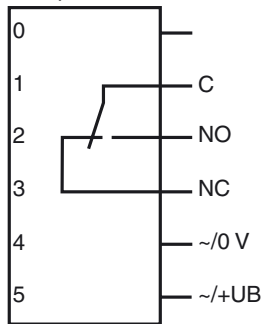
- Adjustable background suppression
- Infrared light
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass

**Dimensions**

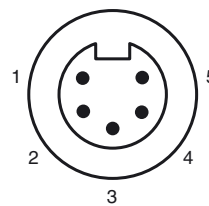


**Electrical connection**

Option:



**Pinout**



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Subject to modifications without notice

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**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 <sub>d</sub>	850 a
Mission Time (T <sub>M</sub> )	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 <sub>B</sub>	12 ... 240 V AC , 10 ... 30 V DC (automatic adaption to +UB)
Power consumption	P <sub>0</sub>	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	

**Ambient conditions**

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

**Mechanical specifications**

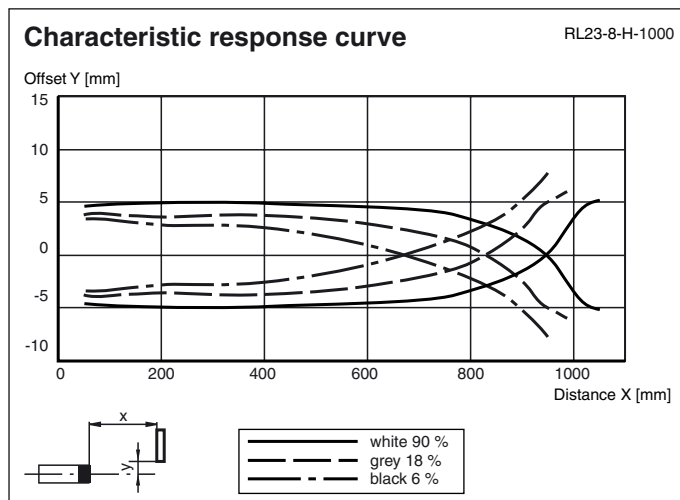
Protection degree	IP65
Connection	5-pin mini connector
Material	
Housing	Terluran GV15
Optical face	glass
Mass	180 g

**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

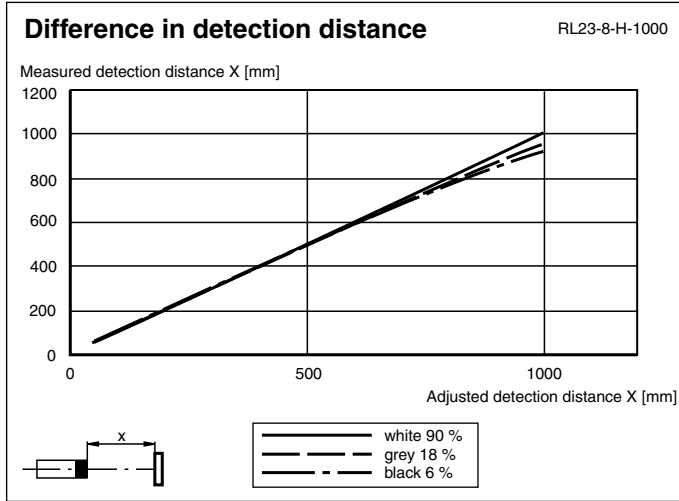
**OMH-22**

Mounting bracket

**OMH-RLK29-HW**

Mounting bracket for rear wall mounting

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)



**Light/Dark switch**

ON 	Dark on
ON 	Light on

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