



Model Number

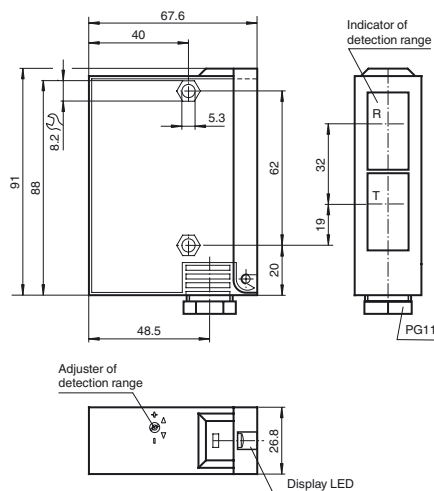
RLK23-8-H-2000-IR/31/104/116

Background suppression sensor
with terminal compartment

Features

- Adjustable background suppression
- Infrared light
- Timer function
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass
- Protected against mutual interference (no cross-talk)

Dimensions



Terminal compartment
RL23-8-H-1000
RLK23-8-H-1000

Programming
switch light/dark

Display LED



Terminal compartment
RL23-8-H-2000
RLK23-8-H-2000

Programming
switch light/dark;
time functions

Display LED

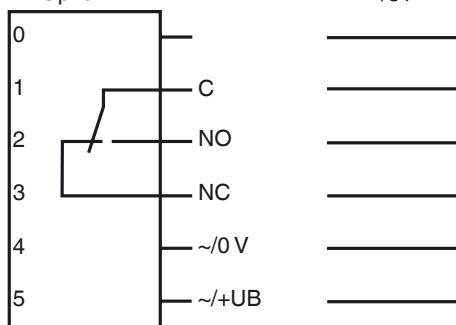
Time adjuster



Electrical connection

Option:

/31



**Technical data****General specifications**

Detection range	50 ... 2000 mm
Detection range min.	50 ... 150 mm
Detection range max.	50 ... 3000 mm
Light source	IREd
Light type	modulated infrared light
Black/White difference (6 %/90 %)	< 20 %
Diameter of the light spot	50 mm at 2000 mm sensor range
Angle of divergence	1.5 °
Ambient light limit	5000 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
Control elements	Time 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	f10 Hz
Response time	50 ms
Timer function	ON delay (GAN), OFF delay (GAB), one shot (IAB), programmable, adjustment range 0.1 ...10 s

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	terminal compartment
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)

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

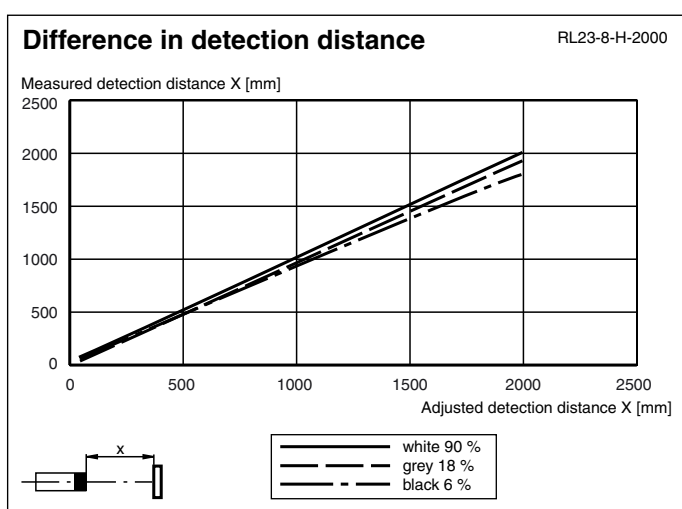
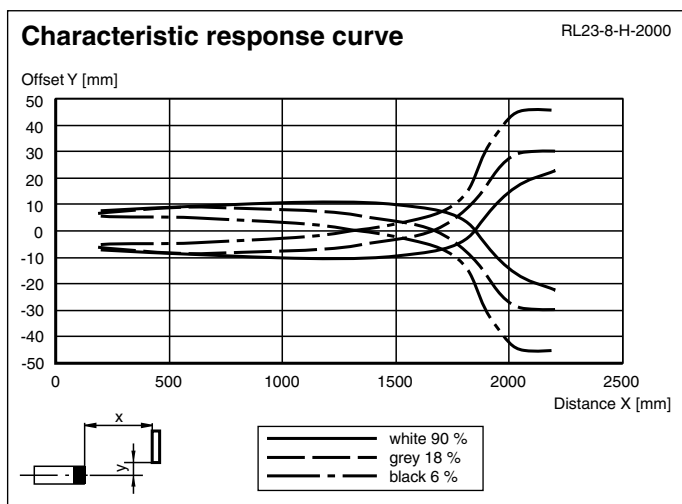
Mounting bracket

OMH-RLK29-HW

Mounting bracket for rear wall mounting

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

Curves/Diagrams



Timer functions

Timer function	Switching type		
ON 1 2 3 4 Without	Light		Receiver exposed Receiver dark
ON 1 2 3 4 ON delay	Light		ON
	Dark		OFF
ON 1 2 3 4 OFF delay	Light		ON
	Dark		OFF
ON 1 2 3 4 one shot	Light		ON
	Dark		OFF

Time t_{ON} , t_{OFF} and t_{OS} are adjustable from 0.1 to 10 seconds.

The Light/Dark-Switch (Left, outer switch) is shown in the "Dark ON" position.

Type	Description	Notes
-Z	OFF delay timer	Adjustable time interval (0.1 s - 10 s)
	one shot timer	
	ON delay timer	

Light/Dark switch

ON 1 2 3 4	Dark on
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS



ON 1 2 3 4	Light on
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