











Model Number

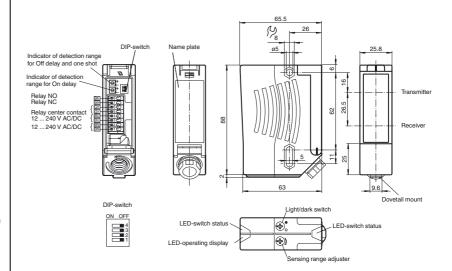
RLK28-8-H-2000-IR-Z/31/116

Background suppression sensor with terminal compartment

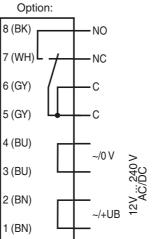
Features

- Universal series with highly versatile fields of use
- Resistant against noise: reliable operation under all conditions
- Minimal black-white difference through the infrared transmission LED
- Programmable time function GAN, GAB, IAB and GAN-IAB as double function
- · Version for universal voltages

Dimensions



Electrical connection



The relay-functions "NC" and "NO" bear on the switching mode "Light-ON".

This complies to the default setting of the light/dark switch, located on top of the housing (factory setting).

Technical data		
General specifications		
Detection range		20 2000 mm
Detection range min.		20 200 mm
Detection range max.		20 2000 mm
Adjustment range		200 2000 mm
Background suppression		max. + 10 % of the upper limit of the detection range
Light source		IRED
Light type		modulated infrared light, 880 nm
Black/White difference (6 %/90 %	%)	< 40 %
Diameter of the light spot		approx. 70 mm at a distance of 2000 mm
Angle of divergence		transmitter 2° receiver 2°
Ambient light limit		50000 Lux
Functional safety related paran MTTF _d	neters	620 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		0 /0
		I FD green
Operation indicator		LED green
Function indicator		LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range
Control elements		Detection range adjuster , Light/Dark switch
		Detection range adjuster, Eight Dark Switch
Electrical specifications	- 11	10 040 V AC/DC
Operating voltage	U _B	12 240 V AC/DC ≤ 3.5 VA
Power consumption	P ₀	≤ 3.5 VA
Output		
Switching type		light/dark on, switchable (selectable, light/dark switching is a activated if the receiver has 'dark on' selected.)
Signal output		Relay, 1 alternator
Switching voltage		max. 250 V AC/DC
Switching current		max. 2 A
Switching power		DC: max. 50 W AC: max. 500 VA
Switching frequency	f	25 Hz
Response time		20 ms
Timer function		ON delay (GAN), OFF delay (GAB), one shot (IAB), ON delay one shot (GAN-IAB), ON delay-OFF delay (GAN-GAB), programmable adjustment interval 0.1 10 s
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		terminal compartment with 8 spring-loaded terminals for wincross section 0.5 1.5 mm ² , insulation stripping 7.5 8.5 mm ² M16 x 1.5 cable gland
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass		112 g
Compliance with standards and	d directi	- -
ves		
Directive conformity		
Low Voltage Directive 2006/95	/EC	EN 60947-5-2:2007 + A1:2012
EMC Directive 2004/108/EC		EN 60947-5-2:2007 + A1:2012
Standard conformity		
Product standard		EN 60947-5-2:2007 + A1:2012
Standards		IEC 60947-5-2:2007 + A1:2012 UL 60947-5-2: 2014 EN 62471:2008
Approvals and certificates		
Protection class		 II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution! The protection class 2 is only valid when the terminal comp
		ment is closed.
UL approval		E87056, cULus Listed Caution : This equipment is consider as open-type equipment. It must be mounted within an enclure, that is suitably designed for protection against internal and personal injury resulting from accessibility to live parts according UL 508.

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-MLV11-K

dove tail mounting clamp

OMH-RLK29

Mounting bracket

OMH-RLK29-HW

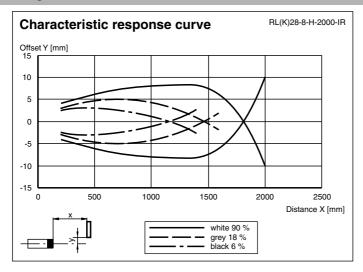
Mounting bracket for rear wall mounting

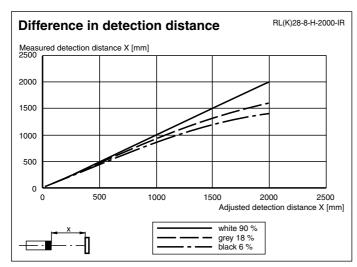
OMH-RL28-C

Weld slag cover model

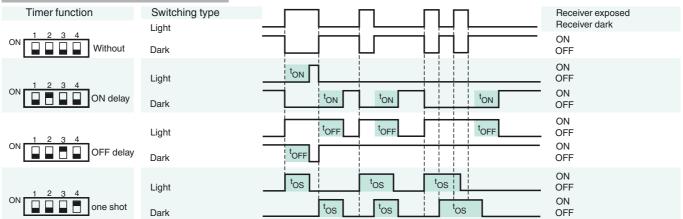
Other suitable accessories can be found at www.pepperl-fuchs.com

Curves/Diagrams





Timer functions



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.

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

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