

Model Number

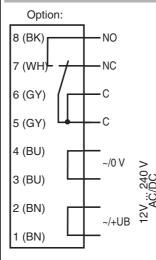
RLK28-8-H-2000-IR-Z/31/116

Background suppression sensor with terminal compartment

Features

- Universal series with highly versatile ٠ fields of use
- Resistant against noise: reliable ope-٠ ration under all conditions
- Minimal black-white difference th-• rough the infrared transmission LED
- Programmable time function GAN, ٠ GAB, IAB and GAN-IAB as double function
- Version for universal voltages

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).

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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20 ... 2000 mm

20 ... 200 mm

20 ... 2000 mm

IRED

< 40 %

transmitter 2

receiver 2°

50000 Lux

LED green

2 LEDs yellow

Light/Dark switch

12 ... 240 V AC/DC

Relay, 1 alternator

max. 250 V AC/DC

 \leq 3.5 VA

Detection range adjuster

880 a

20 a

0%

200 ... 2000 mm

modulated infrared light, 880 nm

approx. 70 mm at a distance of 2000 mm

ON: object inside the scanning range

OFF: object outside the scanning range

light/dark on, switchable (selectable, light/dark switching is only

activated if the receiver has 'dark on' selected.)

max. + 10 % of the upper limit of the detection range

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

Technical data General specifications Detection range Detection range min. Detection range max Adjustment range Background suppression Light source Light type Black/White difference (6 %/90 %) Diameter of the light spot Angle of divergence Ambient light limit Functional safety related parameters $\mathsf{MTTF}_{\mathsf{d}}$ Mission Time (T_M) Diagnostic Coverage (DC) Indicators/operating means Operation indicator Function indicator Control elements Control elements **Electrical specifications** Operating voltage UB Power consumption P_0 Output Switching type Signal output Switching voltage Switching current Switching power Switching frequency f Response time Timer function Ambient conditions Ambient temperature Storage temperature Mechanical specifications Degree of protection Connection Material Housing Optical face Mass

max 2 A DC: max. 50 W AC: max. 500 VA 25 Hz 20 ms ON delay (GAN), OFF delay (GAB), one shot (IAB), ON delayone shot (GAN-IAB), ON delay-OFF delay (GAN-GAB), programmable adjustment interval 0.1 ... 10 s -40 ... 60 °C (-40 ... 140 °F) -40 ... 75 °C (-40 ... 167 °F) IP67 terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 ... 1.5 mm², insulation stripping 7.5 ... 8.5 mm, M16 x 1.5 cable gland Plastic ABS Plastic pane 112 g Compliance with standards and directi-Directive conformity Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates Protection class II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution! The protection class 2 is only valid when the terminal compartment is closed. UL approval cULus Listed Caution: This equipment is considered as open-type equipment. It must be mounted within an enclosure, that is suitably designed for protection against internal fire and personal injury resulting from accessibility to live parts according UL 508. 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-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

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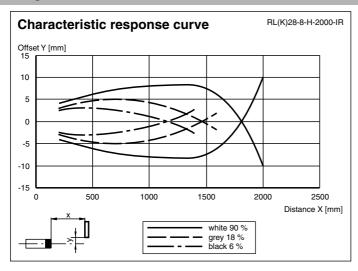
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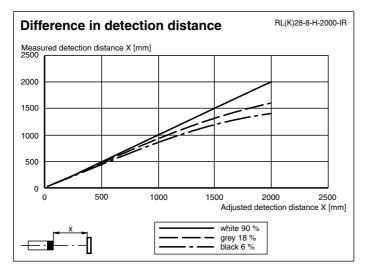


2

ves

Curves/Diagrams





Timer functions

Timer function	Switching type Light
ON 0 Without	Dark
	Light
ON 1 2 3 4 ON 0N delay	Dark
	Light
ON 0 OFF delay	Dark
	Light
ON 0N 0ne shot	Dark

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	

