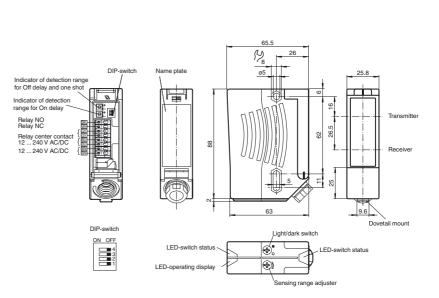
c(U)us VISCO EAC (



Model Number

RLK28-8-H-400-IR-Z/31/116

Background suppression sensor with terminal compartment

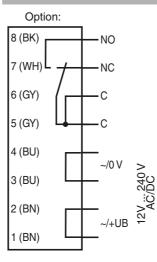
Features

CE

- Universal series with highly versatile • fields of use
- Resistant against noise: reliable ٠ 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

Electrical connection

Dimensions



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).

Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS



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

Electrical specifications Operating voltage Power consumption Output Switching type Signal output Switching voltage Switching current Switching power

Switching frequency Response time Timer function

Conformity Product standard Ambient conditions Ambient temperature Storage temperature

Mechanical specifications Housing width Housing height Housing depth Degree of protection

Connection Material

Housing Optical face Mass

Approvals and certificates EAC conformity

Protection class

UL approval

2

CCC approval

20 ... 400 mm 20 ... 150 mm 20 ... 400 mm 150 ... 400 mm max. + 10 % of the upper limit of the detection range IRED modulated infrared light, 880 nm < 5 % approx. 14 mm at a distance of 400 mm transmitter 2 receiver 2° 50000 Lux 620 a

LED green 2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range Sensing range adjuster, Light-on/dark-on changeover switch 12 ... 240 V AC/DC

≤ 3.5 VA

20 a

0%

UB

 P_0

light/dark on, switchable (selectable, light/dark switching is only activated if the receiver has 'dark on' selected.) Relay, 1 alternator max, 250 V AC/DC 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

EN 60947-5-2 -40 ... 60 °C (-40 ... 140 °F) -40 ... 75 °C (-40 ... 167 °F)

25.8 mm 88 mm 65.5 mm 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 TR CU 020/2011 TR CU 004/2011 II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit insulated from control circuit in accordance with IEC 61140. Caution! The protection class 2 is only valid when the terminal compartment is closed. E87056, 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.

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

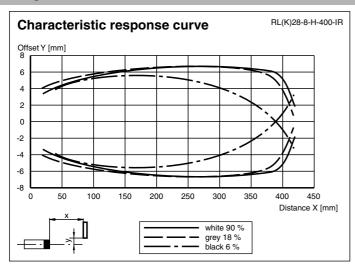
Other suitable accessories can be found at www.pepperl-fuchs.com

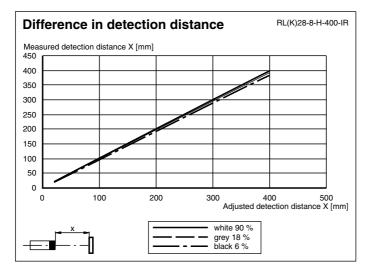
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Curves/Diagrams





Timer functions

	1
Timer function	Switching type Light
ON Without	Dark
1 2 3 4	Light
ON lelay	Dark
1 2 3 4	Light
ON OFF delay	Dark
1 2 3 4	Light
ON ON ONE 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	

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