c(U)us VISCO EAC (



Model Number

RLK28-8-H-700-RT-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
- Good alignability due to red • 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



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** MTTF_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

Conformity

Product standard Ambient conditions Ambient temperature Storage temperature Mechanical specifications

Switching frequency

Response time

Timer function

Housing width Housing height Housing depth Degree of protection Connection

Material

Housing Optical face Mass

Approvals and certificates EAC conformity

Protection class

UL approval

OL approvar

CCC approval

20 ... 700 mm 20 ... 700 mm 20 ... 700 mm 200 ... 700 mm max. + 10 % of the upper limit of the detection range LED modulated visible red light , 660 nm < 20 % approx. 15 mm at a distance of 700 mm Emitter 1.2°, Receiver 2° 50000 Lux 620 a

20 a 0 % 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

UB

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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 Image: Solution of the second sec

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.

roval 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

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Curves/Diagrams





Timer functions

Timer function	Switching type
ON ON Without	Dark
1 0 0 4	Light
ON 1 2 3 4 ON delay	Dark
4 9 9 4	Light
ON OFF delay	Dark
4 9 9 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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