

Model Number

c(UL)us

RLK28-55-Z/31/116

Retroreflective sensor with terminal compartment

Features

CE

Universal series with highly versatile • fields of use

VISCO

EAC

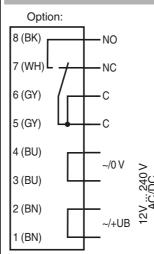
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- Resistant against noise: reliable ope-٠ ration under all conditions
- Programmable time function GAN, • GAB, IAB, as well as GAN-GAB and GAN-IAB as double function
- Version with red light
- Version with relay output

Product information

The series 28 family of sensors can be universally used. It has a large range of models that allows it to be integrated into any automation environment. The sensors are contained in sturdy water resistant plastic housings with multiple fastening options and scratch resistant optical cover. Features such as a timer function, and functions including a light/ dark switch, sensitivity adjuster and highly visible status LEDs make for less effort on the part of the user and streamline installation, setup and operation. Just about any task associated with positioning, moving, conveying and monitoring can be accomplished with these sensors.

Electrical connection



The relay-functions "NC" and "NO" bear on the switching mode "Dark-ON". This complies to the default setting of the light/dark switch (factory setting).

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

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Technical data

General specifications		
Effective detection range		
Reflector distance		
Threshold detection range		
Reference target		
Light source		
Light type		
Polarization filter		
Diameter of the light spot		
Angle of divergence		
Ambient light limit		
Functional safety related param		
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 Switching frequency Response time Timer function

Ambient conditions

Ambient temperature Storage temperature Mechanical specifications Housing width Housing height Housing depth

Degree of protection Connection

Material Housing Optical face Mass

Compliance with standards and directives

Directive conformity Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC Standard conformity Product standard Standards

Approvals and certificates

EAC conformity Protection class

2

0...17 m 0.05 ... 17 m 21 m H85-2 reflector LED modulated visible red light yes approx. 290 mm at a distance of 17 m emitter 1.2° receiver 2° 80000 Lux 600 a 20 a

LED areen

0 %

 U_B

 P_0

f

2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted sensitivity adjustment (Adjustment to < 25% of the effective operating range), Light-on/dark-on changeover switch

12 240 V AC/DC
≤ 3.5 VA
light/dark on switchable
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 delay- one shot (GAN-IAB), ON delay-OFF delay (GAN-GAB), pro- grammable adjustment interval 0.1 10 s
-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

EN 60947-5-2:2007+A1:2012 EN 60947-5-2:2007+A1:2012

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007 + A1:2012 UL 60947-5-2: 2014 EN 62471:2008

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.

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-07

OMH-05

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-21 Mounting bracket

Accessories

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

PEPPERL+FUCHS

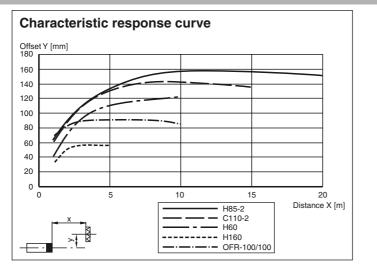
UL approval

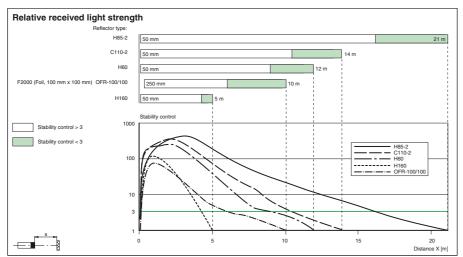
E87056, cULus Listed Caution: This equipment is considered as open-type equipment. It must be mounted within an enclosure, that is suitably designed for protection against internal fire and personal injury resulting from accessibility to live parts according UL 508.

CCC approval

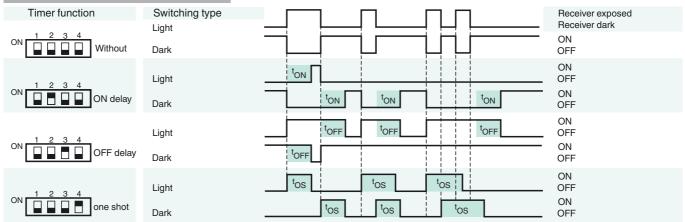
Certified by China Compulsory Certification (CCC)

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.

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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	

