

Model Number

c(UL)us

RLK28-55-V-Z/31/116

Retroreflective sensor with terminal compartment

Features

CE

Universal series with highly versatile • fields of use

VISCO

EAC

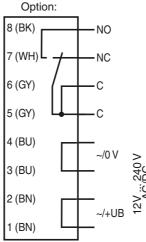
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- Resistant against noise: reliable ٠ operation under all conditions
- Foreground suppression, suited to • recording of sheet-shrink-wrapped objects
- Programmable time function GAN, GAB, IAB, as well as GAN-GAB and GAN-IAB as double function
- Version 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

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General specifications		
Effective state attacks were as		
Effective detection range		0 13 m
Reflector distance		0.5 13 m
Threshold detection range		17 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light
Polarization filter		yes
Near range suppression		0 0.2 m
Diameter of the light spot		approx. 220 mm at a distance of 13 m
Angle of divergence		emitter 1.2° receiver 2°
Ambient light limit		80000 Lux
Functional safety related para	ameters	
MTTF _d		600 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green
Function indicator		2 LEDs yellow, light up when light beam is free, fla falling short of the stability control, off when light be interrupted
Control elements		sensitivity adjustment (Adjustment to < 25% of the operating range) , Light-on/dark-on changeover sv
Electrical specifications		
Operating voltage	UB	12 240 V AC/DC
Power consumption	P ₀	≤ 3.5 VA
Output		
Switching type		light/dark on switchable
Signal output Switching voltage		Relay, 1 alternator 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 one shot (GAN-IAB), ON delay-OFF delay (GAN-O programmable adjustment interval 0.1 10 s
Conformity Product standard		EN 60947-5-2
Ambient conditions		EN 00347-5-2
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Housing width		25.8 mm
Housing height		88 mm
Housing depth		65.5 mm
Degree of protection		IP67
Connection		terminal compartment with 8 spring-loaded termina cross section 0.5 1.5 mm ² , Insulation stripping , M16 x 1.5 cable gland
Material		
Housing		Plastic ABS
Optical face Mass		Plastic pane 112 g
		5
Approvals and certificates		
EAC conformity		TR CU 020/2011 TR CU 004/2011
Protection class		II, rated insulation voltage ≤ 250 V AC with polluti 2 according to IEC 60664-1 Output circuit insulate control circuit in accordance with IEC 61140. Caution! The protection class 2 is only valid when the term compartment is closed.
UL approval		E87056, cULus Listed Caution: This equipment considered as open-type equipment. It must be m within an enclosure, that is suitably designed for p against internal fire and personal injury resulting f accessibility to live parts according UL 508.

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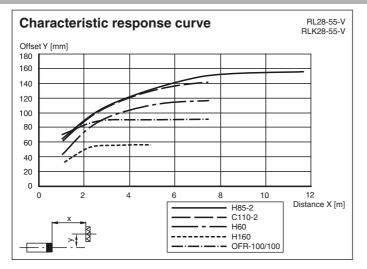
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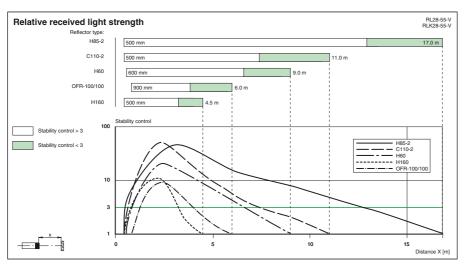


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Accessories **OMH-05** Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm **OMH-07** Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm **OMH-21** Mounting bracket **OMH-22** Mounting bracket OMH-MLV11-K dove tail mounting clamp **OMH-RLK29** Mounting bracket OMH-RLK29-HW ash when Mounting bracket for rear wall mounting beam is OMH-RL28-C effective Weld slag cover model witch Other suitable accessories can be found at www.pepperl-fuchs.com 3), ON delay-GAB), als for wire 7.5 ... 8.5 mm tion degree 1ed from ninal is mounted protection from C)

Curves/Diagrams





Timer functions

Timer function	Switching type		Receiver exposed Receiver dark
ON 2 3 4 Without	Light Dark		ON OFF
1 2 3 4	Light	ton	ON OFF
ON I ON delay	Dark	ton ton ton	ON OFF
1 2 3 4	Light		ON OFF
ON OFF delay	Dark	toff	ON OFF
1 2 3 4	Light	tos tos	ON OFF
ON ON ONE Shot	Dark	tos tos tos	ON OFF

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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