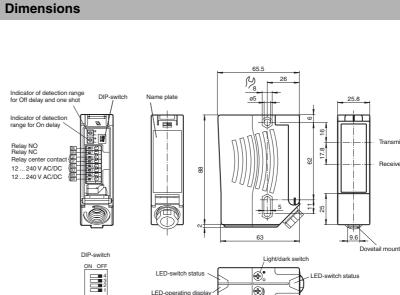
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Model Number

RLK28-55-V-Z/31/116

Retroreflective sensor with terminal compartment

Features

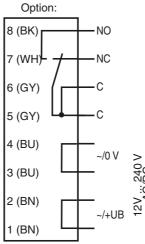
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- Universal series with highly versatile ٠ fields of use
- Resistant against noise: reliable ope-٠ ration under all conditions
- Foreground suppression, suited to re-• cording of sheet-shrink-wrapped objects
- Programmable time function GAN, ٠ GAB, 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).

. Sensitivity adjuste

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Technical data

Technical data		
General specifications		
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
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 parame	ters	
MTTF _d		940 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operating display		LED green
Function display		2 LEDs yellow, light up when light beam is free, flash when fal- ling short of the stability control, off when light beam is interrup- ted
Controls		sensitivity adjustment (Adjustment to < 25% of the effective operating range), Light/Dark switch
Electrical specifications		
Operating voltage	UB	12 240 V AC/DC
Power consumption	Po	≤ 3.5 VA
Output	Ū	
Switching type		light/dark on switchable
Signal output		Relay, 1 alternator
Switching voltage		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), ON delay- one shot (GAN-IAB), ON delay-OFF delay (GAN-GAB), pro- grammable adjustment interval 0.1 10 s
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications Protection degree		IP67
Connection		terminal compartment with 8 spring-loaded terminals for wire
Connection		, M16 x 1.5 cable gland
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass		112 g
Compliance with standards and c ves	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 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 230 V AC Caution! The protection class 2 is only valid when the terminal compartment is closed.
UL approval		cULus Listed, Class 2 power source
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

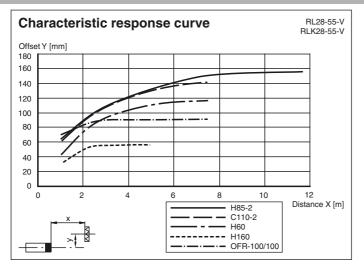
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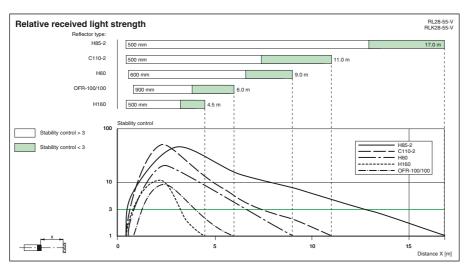


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Curves/Diagrams





Timer functions

Timer function	Switching type		Receiver exposed Receiver dark
ON ON 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	Dark	toff	ON OFF
1 2 3 4	Light	tos tos	ON OFF
ON ON One shot	Dark	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.

 Type
 Description
 Notes

 -Z
 OFF delay timer
 Adjustable time interval (0.1 s - 10 s)

 ON delay timer
 ON delay timer / OFF delay timer

 ON delay timer / one shot timer
 ON delay timer / one shot timer

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