











Model Number

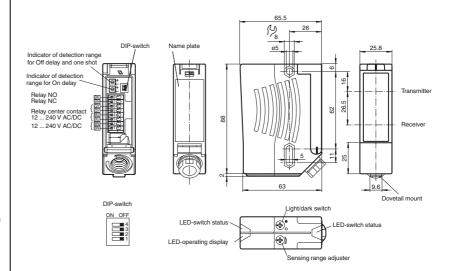
RLK28-8-H-700-RT-Z/31/116

Background suppression sensor with terminal compartment

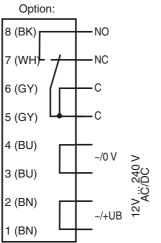
Features

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

Dimensions



Electrical connection



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).

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General specifications		
Detection range		20 700 mm
Detection range min.		20 200 mm
Detection range max.		20 700 mm
Adjustment range		200 700 mm
Background suppression		max. + 10 % of the upper limit of the detection range
Light source		LED
Light type		modulated visible red light , 660 nm
Black/White difference (6 %/90 s	%)	< 20 %
Diameter of the light spot		approx. 15 mm at a distance of 700 mm
Angle of divergence		Emitter 1.2°, Receiver 2°
Ambient light limit		50000 Lux
Functional safety related paran	neters	
MTTF _d		880 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		
Operation indicator		LED green
Function indicator		2 LEDs yellow
Tanolon indicator		ON: object inside the scanning range OFF: object outside the scanning range
Control elements		Light/Dark switch
Control elements		Detection range adjuster
Electrical specifications		
Operating voltage	U _B	12 240 V AC/DC
Power consumption	P_0	≤ 3.5 VA
Output		
Switching type		light/dark on, switchable (selectable, light/dark switching is o activated if the receiver has 'dark on' selected.)
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 dela 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		,
· · · · · · · · · · · · · · · · · · ·		IP67
Degree of protection		
Degree of protection Connection		terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 mm ² , insulation stripping 7.5 8.5 n M16 x 1.5 cable gland
• ,		terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 mm², insulation stripping 7.5 8.5 n
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Connection Material Housing Optical face	d directi	terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 mm ² , insulation stripping 7.5 8.5 n M16 x 1.5 cable gland Plastic ABS Plastic pane 112 g
Connection Material Housing Optical face Mass Compliance with standards and	d directi	terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 mm ² , insulation stripping 7.5 8.5 n M16 x 1.5 cable gland Plastic ABS Plastic pane 112 g
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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 \emptyset 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

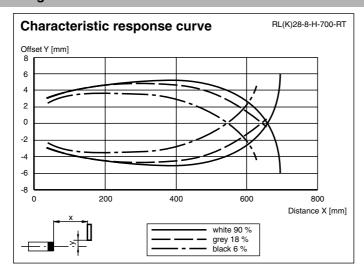
Mounting bracket for rear wall mounting

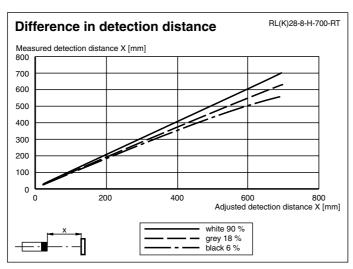
OMH-RL28-C

Weld slag cover model

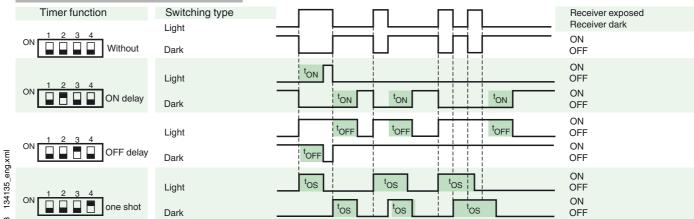
Other suitable accessories can be found at www.pepperl-fuchs.com

Curves/Diagrams









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	