









**VISC** 



## **Model Number**

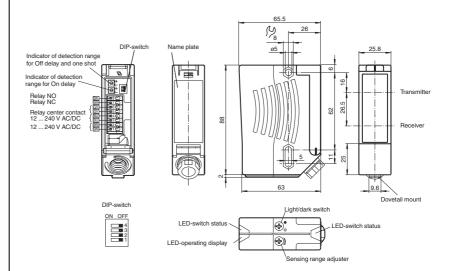
## RLK28-8-H-700-IR-Z/31/116

Background suppression sensor with terminal compartment

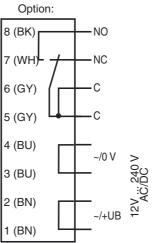
## **Features**

- Universal series with highly versatile fields of use
- Resistant against noise: reliable operation under all conditions
- Minimal black-white difference through the infrared 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 defa

This complies to the default setting of the light/dark switch, located on top of the housing (factory setting).

www.pepperl-fuchs.com

Technical data		
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		IRED
Light type	,	modulated infrared light , 880 nm
Black/White difference (6 %/90 %)	)	< 8 %
Diameter of the light spot  Angle of divergence		approx. 24 mm at a distance of 700 mm transmitter 2°
· ·		receiver 2°
Ambient light limit		50000 Lux
Functional safety related parame	eters	
MTTF <sub>d</sub>		880 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		I FD areas
Operation indicator Function indicator		LED green 2 LEDs yellow
runction 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 only 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 DC: max. 50 W AC: max. 500 VA
Switching power Switching frequency	f	25 Hz
Response time	'	20 ms
Timer function		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
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		terminal compartment with 8 spring-loaded terminals for wire cross section 0.5 1.5 $\text{mm}^2$ , insulation stripping 7.5 8.5 mm, M16 x 1.5 cable gland
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass		112 g
Compliance with standards and 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
Annroyale and cortificates		
Approvals and certificates  Protection class		II rested veltors < 050 V AC with pollution degree 1 0 coops
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution! The protection class 2 is only valid when the terminal compartment is closed.
UL approval		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)
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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

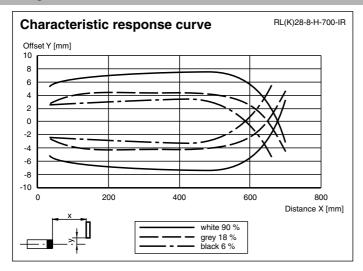
Mounting bracket for rear wall mounting

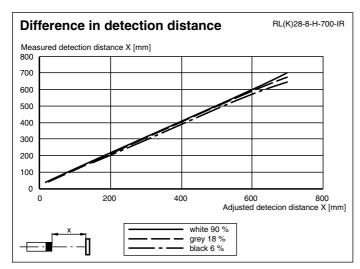
#### OMH-RL28-C

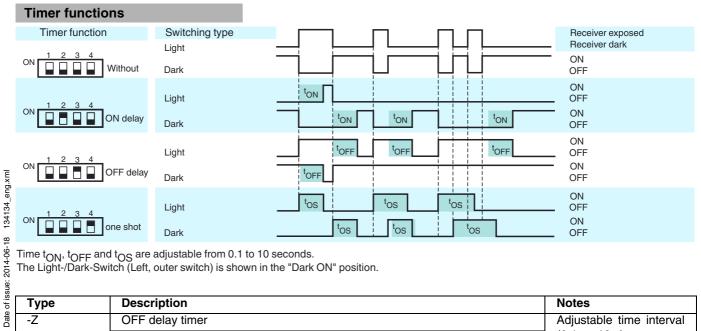
Weld slag cover model

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	