









**VISC** 



# **Model Number**

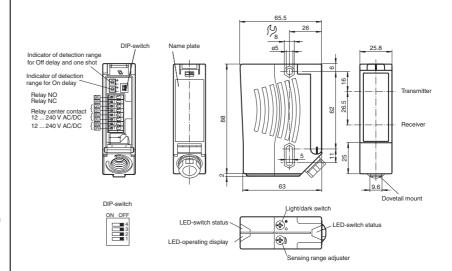
## RLK28-8-H-400-RT-Z/31/116

Background suppression sensor with terminal compartment

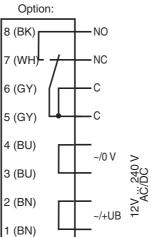
# **Features**

- 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).

www.pepperl-fuchs.com

Detection range Detection range min. Detection range max. Adjustment range Background suppression Light source Light type		20 400 mm 20 150 mm
Detection range min. Detection range max. Adjustment range Background suppression Light source		
Detection range max. Adjustment range Background suppression Light source		20 150 mm
Detection range max. Adjustment range Background suppression Light source		
Adjustment range Background suppression Light source		20 400 mm
Background suppression Light source		150 400 mm
Light source		max. + 10 % of the upper limit of the detection range
•		LED
Light type		modulated visible red light , 660 nm
Plack/Mhita difference (6.9/ /00.9/	\	< 10 %
Black/White difference (6 %/90 %	,	
Diameter of the light spot		approx. 12 mm at a distance of 400 mm
Angle of divergence		Emitter 1.2°, Receiver 2°
Ambient light limit		50000 Lux
<del>-</del>		30000 Lux
unctional safety related parame	eters	
MTTF <sub>d</sub>		880 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
ndicators/operating means		
Operation indicator		LED green
Function indicator		2 LEDs yellow
		ON: object inside the scanning range
		OFF: object outside the scanning range
Control elements		Light/Dark switch
Control elements		Detection range adjuster
lectrical specifications		
Operating voltage	U <sub>B</sub>	12 240 V AC/DC
Power consumption	P <sub>0</sub>	≤3.5 VA
·	' 0	20.0 VA
Output		
Switching type		light/dark on, switchable (selectable, light/dark switching is onl activated if the receiver has 'dark on' selected.)
Cianal autout		•
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
		adjustifier interval 0.1 10 3
mbient conditions		40 0000 (40 44005)
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
lechanical specifications		
Degree of protection		IP67
Connection		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
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass		112 g
Compliance with standards and	directi-	
es	u	
Directive conformity		Low Voltage Directive 2006/95/EC
,		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2:2007
. rought starraged		IEC 60947-5-2:2007
Approvals and certificates		
approvate and certificates		II, rated voltage ≤ 250 V AC with pollution degree 1-2 accor-
Protection class		ding to IEC 60664-1
• •		Caution!
• •		The protection class 2 is only valid when the terminal compar
• •		
• •		ment is closed.
• •		ment is closed. cULus Listed
Protection class		ment is closed. cULus Listed Caution: This equipment is considered as open-type equip-
Protection class		ment is closed.  cULus Listed  Caution: This equipment is considered as open-type equipment. It must be mounted within an enclosure, that is suitably
Protection class		ment is closed.  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 injur
Protection class		ment is closed. cULus Listed Caution: This equipment is considered as open-type equip-

# 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

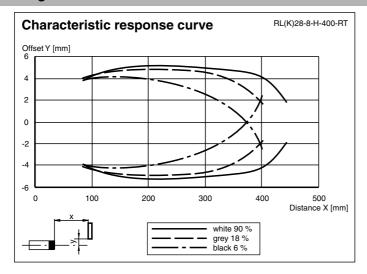
Mounting bracket for rear wall mounting

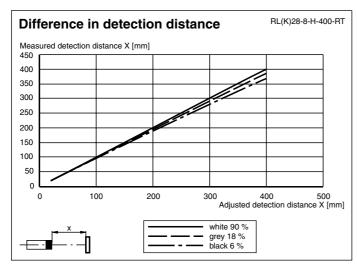
## OMH-RL28-C

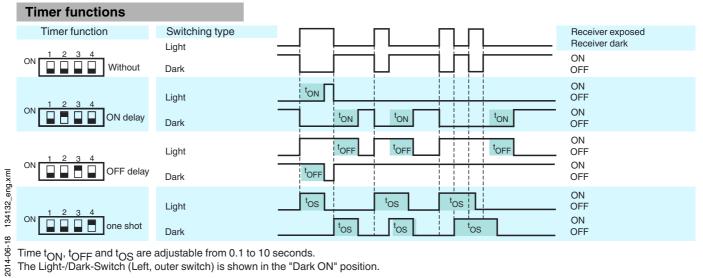
Weld slag cover model

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	