





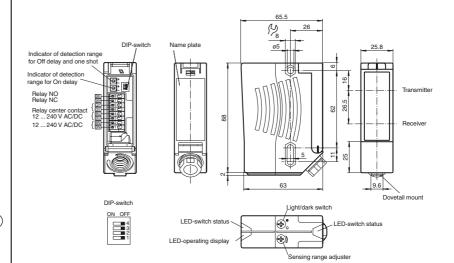






# (W)

## Dimensions



## **Model Number**

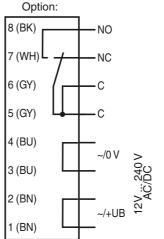
## RLK28-8-H-400-RT-Z/31/116

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

#### **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

Technical data		
General specifications		
Detection range		20 400 mm
Detection range min.		20 150 mm
Detection range max.		20 400 mm
Adjustment range		150 400 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 %)	)	< 10 %
Diameter of the light spot		approx. 12 mm at a distance of 400 mm
Angle of divergence		Emitter 1.2°,
A male in madificultat time in		Receiver 2°
Ambient light limit		50000 Lux
Functional safety related parame	eters	
MTTF <sub>d</sub>		620 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green
Function indicator		2 LEDs yellow
Turiotion indicator		ON: object inside the scanning range
		OFF: object outside the scanning range
Control elements		Sensing range adjuster , Light-on/dark-on changeover switch
Electrical specifications		
Operating voltage	$U_{B}$	12 240 V AC/DC
Power consumption	O <sub>B</sub>	≤ 3.5 VA
·	г0	\$ 5.5 VA
Output		
Switching type		light/dark on, switchable (selectable, light/dark switching is only
Cianal autout		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 delay- one shot (GAN-IAB), ON delay-OFF delay (GAN-GAB), programmable adjustment interval 0.1 10 s
Conformity		,
Product standard		EN 60947-5-2
Ambient conditions		214 000 17 0 2
		40 00 00 / 40 440 05\
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 terminals for wire
		cross section 0.5 1.5 mm <sup>2</sup> , insulation stripping 7.5 8.5 mn
		M16 x 1.5 cable gland
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass		112 g
		•
Approvals and certificates		
EAC conformity		TR CU 020/2011 TR CU 004/2011
Protection class		II, rated insulation voltage ≤ 250 V AC with pollution degree 1 2 according to IEC 60664-1 Output circuit insulated from control circuit in accordance with IEC 61140. Caution!  The protection class 2 is only valid when the terminal compartment is closed.
UL approval		E87056, cULus Listed <b>Caution:</b> 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		

#### 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

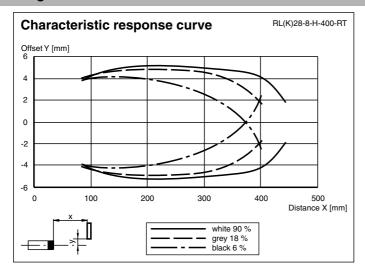
Mounting bracket for rear wall mounting

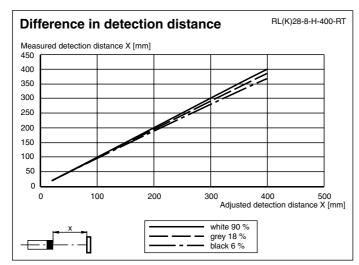
#### OMH-RL28-C

Weld slag cover model

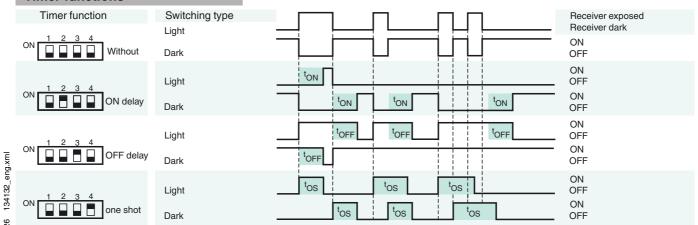
Other suitable accessories can be found at www.pepperl-fuchs.com

## **Curves/Diagrams**





## **Timer functions**



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
	one shot timer	(0.1 s - 10 s)
	ON delay timer	
	ON delay timer / OFF delay timer	
	ON delay timer / one shot timer	