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VISC $\oplus$

## Model Number

## RLK28-55-Z-2466/31/115d

Retroreflective sensor
with 7-pin surface-mounted connector up to 250 VAC

## Features

- Ultra bright LEDs for power on, weak signal indication and switching state
- Programmable time function GAN, GAB, IAB, as well as GAN-GAB and GAN-IAB as double function
- Not sensitive to ambient light, even with switched energy saving lamps
- Protection class II


## Dimensions



## 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).

| Technical data |  |
| :---: | :---: |
| General specifications |  |
| Effective detection range | $0 . . .17 \mathrm{~m}$ |
| Reflector distance | 0.05 ... 17 m |
| Threshold detection range | 21 m |
| Reference target | H85-2 reflector |
| Light source | LED |
| Light type | modulated visible red light, 660 nm |
| Polarization filter | yes |
| Diameter of the light spot | approx. 290 mm at a distance of 17 m |
| Angle of divergence | emitter $1.2^{\circ}$ receiver $2^{\circ}$ |
| Ambient light limit | 80000 Lux |
| Functional safety related parameters |  |
| MTTF ${ }_{\text {d }}$ | 600 a |
| Mission Time ( $\mathrm{T}_{\mathrm{M}}$ ) | 20 a |
| Diagnostic Coverage (DC) | $0 \%$ |
| Indicators/operating means |  |
| Operation indicator | LED green |
| Function indicator | 2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted |
| Control elements | sensitivity adjustment (Adjustment to $<25 \%$ of the effective operating range), Light-on/dark-on changeover switch |
| Electrical specifications |  |
| Operating voltage | $12 . . .240 \mathrm{~V} \mathrm{AC/DC}$ |
| Power consumption | $\leq 3.5 \mathrm{VA}$ |
| 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 |
| Switching power | DC: max. 50 W AC: max. 500 VA |
| Switching frequency | 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 |
| Conformity |  |
| Product standard | EN 60947-5-2 |
| Ambient conditions |  |
| Ambient temperature | $-40 \ldots 60^{\circ} \mathrm{C}\left(-40 \ldots 140^{\circ} \mathrm{F}\right)$ |
| Storage temperature | $-40 \ldots 75^{\circ} \mathrm{C}\left(-40 \ldots 167^{\circ} \mathrm{F}\right)$ |
| Mechanical specifications |  |
| Housing width | 25.8 mm |
| Housing height | 88 mm |
| Housing depth | 65.5 mm |
| Degree of protection | IP65 |
| Connection | 7-pin surface-mounted connector, up to 250 VAC (without cable socket) |
| Material |  |
| Housing | Plastic ABS |
| Optical face | Plastic pane |
| Mass | 180 g |
| Approvals and certificates |  |
| Protection class | II, rated insulation voltage $\leq 250 \mathrm{~V} \mathrm{AC}$ with pollution degree 1 2 according to IEC 60664-1 Output circuit insulated from control circuit in accordance with IEC 61140. <br> Caution! <br> The protection class 2 is only valid when the terminal compartment is closed. |

## Accessories

## OMH-05

Mounting aid for round steel $\varnothing 12 \mathrm{~mm}$ or sheet $1.5 \mathrm{~mm} . . .3 \mathrm{~mm}$

OMH-07
Mounting aid for round steel $\varnothing 12 \mathrm{~mm}$ or sheet $1.5 \mathrm{~mm} . . .3 \mathrm{~mm}$

## OMH-21

Mounting bracket
OMH-22
Mounting bracket
OMH-MLV11-K
dove tail mounting clamp
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





ஸ゙ Time $\mathrm{t}_{\mathrm{ON}}$, tOFF and tos are adjustable from 0.1 to 10 seconds.
. The Light-/Dark-Switch (Left, outer switch) is shown in the "Dark ON" position.

| Type | Description |
| :--- | :--- |
| $-Z$ | OFF delay timer |
|  | One shot timer |
|  | ON delay timer |
|  | ON delay timer / OFF delay timer |
|  | ON delay timer / one shot timer |

## Notes

Adjustable time interval (0.1s - 10 s )

