



### Model Number

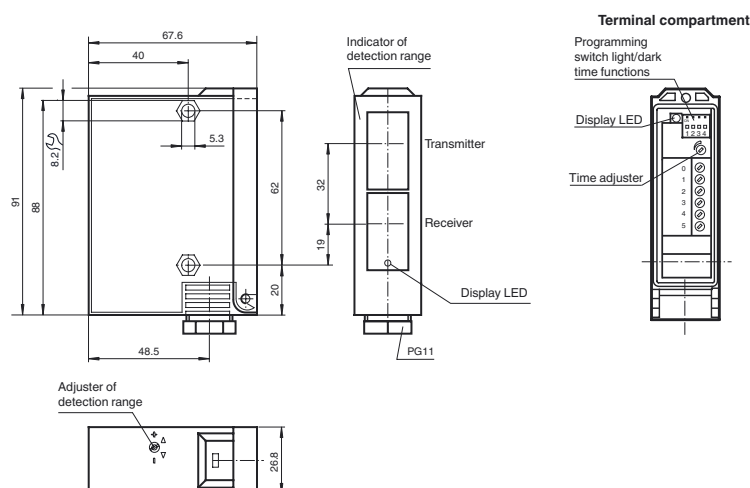
**RLK23-1482**

Background suppression sensor  
terminal compartment

### Features

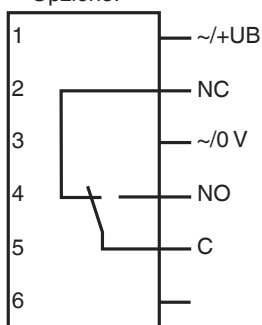
- Adjustable background suppression
- Infrared light
- Timer function
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass
- Hauni-No.: 165276300000EN5380

### Dimensions



### Electrical connection

Opzione:



○ = Light on

● = Dark on

## Technical data

### General specifications

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Detection range                   | 50 ... 2000 mm , preset to 800 mm +/-50 mm |
| Adjustment range                  | 200 ... 2000 mm                            |
| Light source                      | IREL                                       |
| Light type                        | modulated infrared light                   |
| Black/White difference (6 %/90 %) | < 20 %                                     |
| Diameter of the light spot        | 50 mm at 2000 mm sensor range              |
| Angle of divergence               | 1.5 °                                      |
| Ambient light limit               | 5000 Lux                                   |

### Functional safety related parameters

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 850 a |
| Mission Time (T <sub>M</sub> ) | 20 a  |
| Diagnostic Coverage (DC)       | 0 %   |

### Indicators/operating means

|                    |                                             |
|--------------------|---------------------------------------------|
| Function indicator | LED yellow, lights up with receiver lit     |
| Control elements   | Programming switch for light/dark switching |
| Control elements   | Detection range adjuster                    |
| Control elements   | Time adjuster                               |

### Electrical specifications

|                   |                |                                                               |
|-------------------|----------------|---------------------------------------------------------------|
| Operating voltage | U <sub>B</sub> | 12 ... 240 V AC , 10 ... 330 V DC (automatic adaption to +UB) |
| Power consumption | P <sub>0</sub> | 3 VA                                                          |

### Output

|                     |                                                                                             |       |
|---------------------|---------------------------------------------------------------------------------------------|-------|
| Switching type      | light/dark on selectable programmable                                                       |       |
| Signal output       | 1 relay output, 1 alternator                                                                |       |
| Switching voltage   | max. 240 V AC                                                                               |       |
| Switching current   | max. 2 A                                                                                    |       |
| Switching frequency | f                                                                                           | 10 Hz |
| Response time       | 50 ms                                                                                       |       |
| Timer function      | ON delay (GAN), OFF delay (GAB), one shot (IAB), programmable, adjustment range 0.1 ...10 s |       |

### Ambient conditions

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) |
| Storage temperature | -20 ... 75 °C (-4 ... 167 °F) |

### Mechanical specifications

|                   |                      |
|-------------------|----------------------|
| Protection degree | IP65                 |
| Connection        | terminal compartment |
| Material          |                      |
| Housing           | Terluran GV15        |
| Optical face      | glass                |
| Mass              | 180 g                |

### Compliance with standards and directives

|                     |                                         |
|---------------------|-----------------------------------------|
| Standard conformity |                                         |
| Product standard    | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

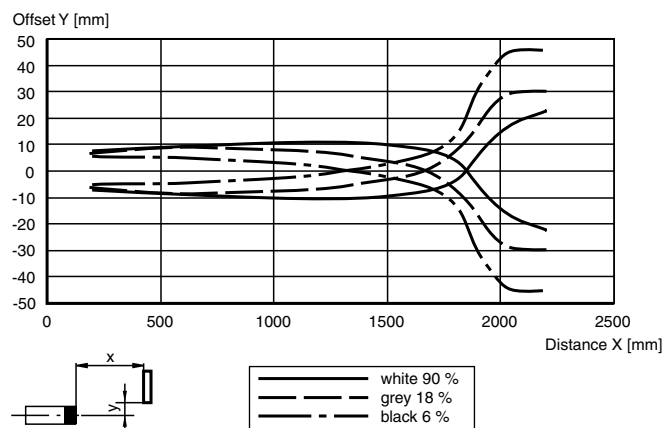
### Approvals and certificates

|              |                                                   |
|--------------|---------------------------------------------------|
| UL approval  | cULus                                             |
| CCC approval | Certified by China Compulsory Certification (CCC) |

## Curves/Diagrams

Characteristic response curve

RL23-8-H-2000



## 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

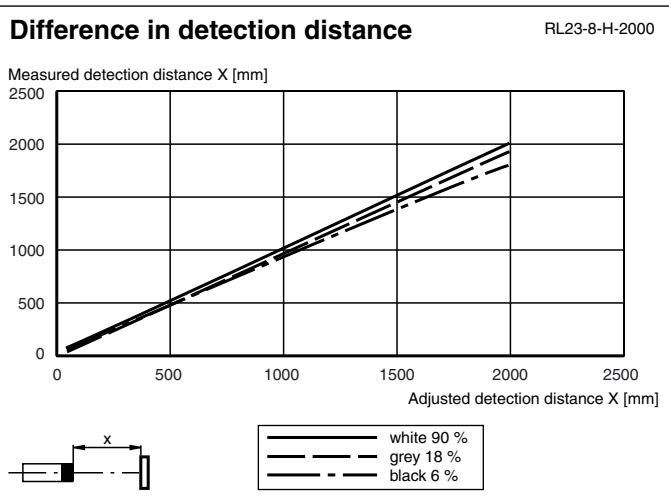
### OMH-22

Mounting bracket

### OMH-RLK29-HW

Mounting bracket for rear wall mounting

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)



### Timer functions

| Timer function | Switching type |  | Receiver exposed<br>Receiver dark |
|----------------|----------------|--|-----------------------------------|
| ON  Without    | Light          |  | ON                                |
|                | Dark           |  | OFF                               |
| ON  ON delay   | Light          |  | ON                                |
|                | Dark           |  | OFF                               |
| ON  OFF delay  | Light          |  | ON                                |
|                | Dark           |  | OFF                               |
| ON  one shot   | Light          |  | ON                                |
|                | Dark           |  | OFF                               |

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 (0.1 s - 10 s) |
|      | one shot timer  |                                         |
|      | ON delay timer  |                                         |