



### Model Number

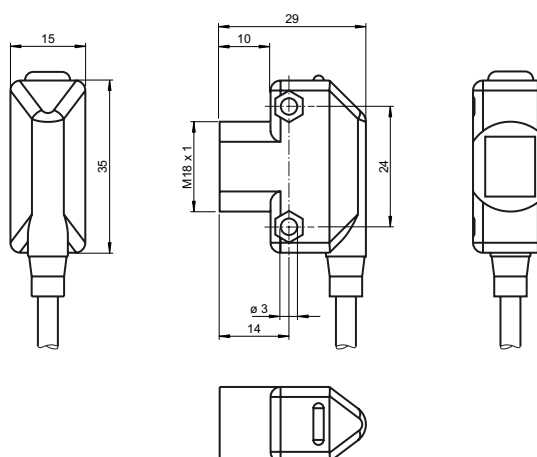
**ML17-8-H-50-RT/115/136**

Background suppression sensor  
with fixed cable

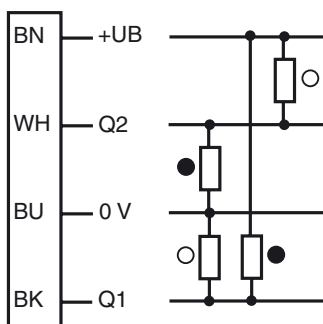
### Features

- Compact, versatile housing
- 360° high visibility LEDs
- Very low color sensitivity
- Front mounting with M18-threads or side mounting holes
- Sturdy, waterproof plastic housing
- Tamper-proof version with no adjustments

### Dimensions

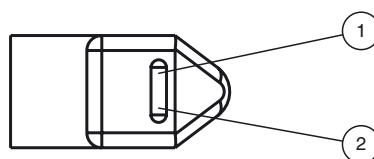


### Electrical connection



○ = Light on  
● = Dark on

### Indicators/operating means



|   |                   |        |
|---|-------------------|--------|
| 1 | Signal display    | yellow |
| 2 | Operating display | green  |

**Technical data****General specifications**

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Detection range                   | 10 ... 50 mm                         |
| Background suppression            | starts from 65 mm                    |
| Reference target                  | standard black, 100 mm x 100 mm      |
| Light source                      | LED                                  |
| Light type                        | modulated visible red light , 640 nm |
| Black/White difference (6 %/90 %) | ≤ 10 %                               |
| Diameter of the light spot        | ≤ 3 mm at 50 mm                      |
| Angle of divergence               | ≤ 4 °                                |
| Ambient light limit               | ≤ 40000 Lux                          |

**Indicators/operating means**

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Operating display | green LED , solid : Power on<br>green LED , flashing: Short circuit/overload indication |
| Function display  | LED yellow, lights up with receiver lit                                                 |

**Electrical specifications**

|                                |       |                          |
|--------------------------------|-------|--------------------------|
| Operating voltage              | $U_B$ | 10 ... 30 V DC , class 2 |
| Ripple                         |       | max. 10 %                |
| No-load supply current         | $I_0$ | < 30 mA                  |
| Time delay before availability | $t_v$ | ≤ 100 ms                 |

**Output**

|                     |                                                                                                          |            |
|---------------------|----------------------------------------------------------------------------------------------------------|------------|
| Switching type      | light/dark on                                                                                            |            |
| Signal output       | 2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected, overvoltage protected |            |
| Switching voltage   | max. 30 V DC                                                                                             |            |
| Switching current   | max. 100 mA                                                                                              |            |
| Voltage drop        | U <sub>d</sub>                                                                                           | ≤ 2.5 V DC |
| Switching frequency | f                                                                                                        | 500 Hz     |
| Response time       | ≤ 1 ms                                                                                                   |            |

**Ambient conditions**

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -20 ... 55 °C (-4 ... 131 °F)  |
| Storage temperature | -40 ... 75 °C (-40 ... 167 °F) |

**Mechanical specifications**

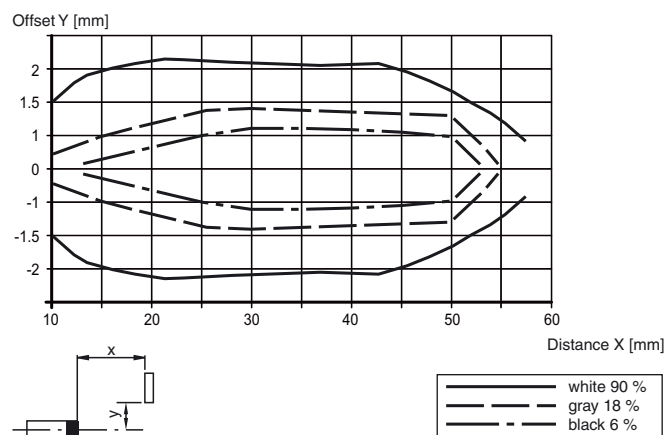
|                   |               |
|-------------------|---------------|
| Protection degree | IP67          |
| Connection        | 2 m PVC cable |
| Material          |               |
| Housing           | ABS           |
| Optical face      | Acrylic       |
| Mass              | approx. 40 g  |

**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 | Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. |

**Curves/Diagrams****Characteristic response curve****Accessories**

**OMH-ML17-EZ**  
Mounting bracket

**OMH-ML17**  
Mounting bracket

**OMH-ML17-1**  
Mounting bracket

Additional accessories can be found in the Internet.

