# 

# **Model Number**

#### ML17-6/115b/136

Retroreflective sensor

with fixed cable and M12 connector, 4-pin

### Features

- Compact series in universal housing for standard applications
- Miniature design
- Front mounting with M18-threads or side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick clamp system
- Long-range nonpolarized model
- 4-in-1 output (push-pull)

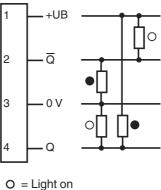
# **Product information**

The ML17 sensor family offers diverse connection and installation options, which means that it can adapt to the most varied automation tasks. In addition to the usual fitting method using M4 screws, these sensors can also be installed by means of M18 threaded insert. All devices are equipped with a green Power On display and a yellow function display. These displays are arranged in such a way that they are clearly visible from different directions.



# **Electrical connection**

Dimensions

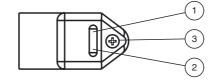




# **Pinout**



# Indicators/operating means



| 1 | Signal display         | yellow |  |
|---|------------------------|--------|--|
| 2 | Operating display      | green  |  |
| 3 | Sensitivity adjustment |        |  |

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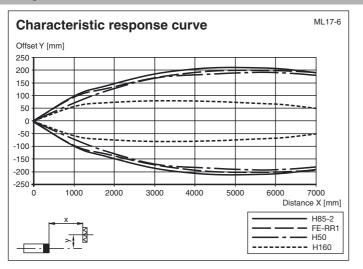
# Technical data

| rechnical data                    |                |  |
|-----------------------------------|----------------|--|
| General specifications            |                |  |
| Effective detection range         |                | 0 6.5 m  |
| Reflector distance                |                | 50 6500 mm   |
| Reference target                  |                | FE-RR1 reflector   |
| Light source                      |                | LED  |
| Light type                        |                | modulated visible red light , 626 nm   |
| Ambient light limit               |                | ≤ 10000 Lux  |
| Indicators/operating means        |                |  |
| Operating display                 |                | LED green  |
| Function display                  |                | LED yellow, lights up with receiver lit  |
| Controls                          |                | sensitivity adjustment   |
| Electrical specifications         |                |  |
| Operating voltage                 | UB             | 10 30 V DC , class 2   |
| Ripple                            | 2              | max. 10 %  |
| No-load supply current            | I <sub>0</sub> | < 25 mA  |
| Operating current                 |                | 100 mA max per output  |
| Time delay before availability    | t <sub>v</sub> | ≤ 200 ms   |
| Output                            |                |  |
| Switching type                    |                | light/dark on  |
| Signal output                     |                | 2 push-pull (4 in 1)outputs, short-circuit protected, reverse pola-<br>rity protected, overvoltage protected |
| Switching voltage                 |                | max. 30 V DC   |
| Switching current                 |                | max. 100 mA  |
| Voltage drop                      | Ud             | ≤ 2 V DC   |
| Switching frequency               | f              | 500 Hz   |
| Response time                     |                | ≤ 1 ms   |
| Ambient conditions                |                |  |
| Ambient temperature               |                | -20 55 °C (-4 131 °F)  |
| Storage temperature               |                | -20 75 °C (-4 167 °F)  |
| Mechanical specifications         |                |  |
| Protection degree                 |                | IP67   |
| Connection                        |                | 150 mm PVC cable with 4-pin, M12 connector   |
| Material                          |                |  |
| Housing                           |                | ABS  |
| Optical face                      |                | Acrylic  |
| Mass                              |                | approx. 23 g   |
| Compliance with standards and ves | d direct       | i-   |
| Standard conformity               |                |  |
| Product standard                  |                | EN 60947-5-2:2007<br>IEC 60947-5-2:2007  |
| Approvals and certificates        |                |  |
|                                   |                |  |

UL approval CCC approval

cULus Products with a maximum operating voltage of  $\leq$ 36 V do not bear a CCC marking because they do not require approval.

#### **Curves/Diagrams**



| -  |     |     |      |  |
|----|-----|-----|------|--|
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| AL | 663 | 550 | ries |  |
|    |     |     |      |  |

OMH-ML17-EZ Mounting bracket

OMH-ML17 Mounting bracket

OMH-ML17-1 Mounting bracket

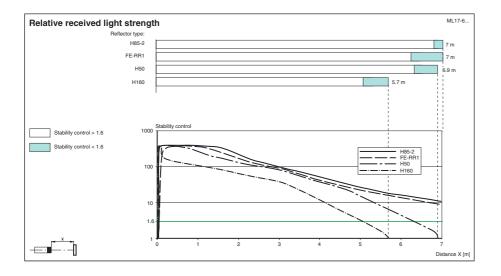
V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR Cable socket, M12, 4-pin, PUR cable

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

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