









Model Number

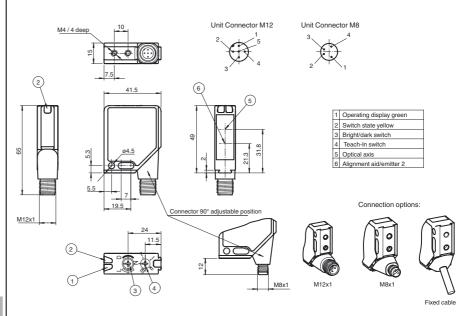
M12/MV12-F2-IR/76b/82b/124/128

Thru-beam sensor with 5-pin M12 connector, 90° adjustable position

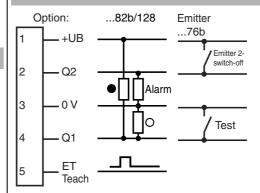
Features

- Series of sensors in a widely used standard housing
- TEACH-IN switch for setting the contrast detection levels
- Automatic adjustment in case of soiling in contrast detection mode
- Additional LED as alignment aid in receiver optics
- High level of stability thanks to the metal housing frame
- Resistant against noise: reliable operation under all conditions

Dimensions



Electrical connection



- O = Light on
- = Dark on

Pinout



| I, TEACH-IN |
|----------------------------|
| rast recogni |
| |
| |
| |
| |
| |
| |
| |
| |
| serve after imes during |
| |
| d, reverse po |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| Z directions |
| ch X, Y and |
| ion A, i and |
| wirz, i ailu |
| ee 1-2 accor |
| |
| |

Accessories

OMH-MLV12-HWG

Mounting bracket for series MLV12 sensors

OMH-MLV12-HWK

Mounting bracket for series MLV12 sensors

OMH-K01

dove tail mounting clamp

OMH-K02

dove tail mounting clamp

OMH-K03

dove tail mounting clamp

OMH-06

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

V15-G-2M-PUR

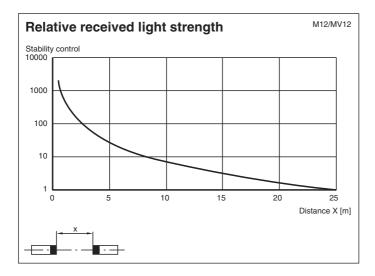
Female cordset, M12, 5-pin, PUR cable

V15-W-2M-PUR

Female cordset, M12, 5-pin, PUR cable

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

Characteristic response curve Offset Y [mm] 200 150 0 2 4 6 8 10 12 14 16 Distance X [m]



Notes

Alignment

In switching position "N" senders and recipients align to:

Yellow LED lights up constantly, red LED is off.

TEACH-IN

• Switch position "N" (standard operation):

LEDs are lit when the light beam is unobstructed, they flash when the value falls short of the function reserve and switch off when the beam is interrupted.

• Switch position "T" (Teach-in mode):

After 1 s, the LED flashes slowly (approx. 1.5 Hz). The sensor is now ready to be set for a specific contrast detection value either via the mechanical switch (pos. I, II or III) or an external signal.

• Switch positions "I", "II" and "III" (contrast detection mode)

Contrast recognition values: I for 15 %, II for 25 %, III for 40 %

1. LED permanently lit: light path unobstructed 2. LED off: element to be sensed detected

3. LED flashes rapidly: detection failure, excessive soiling, function reserve too low.

• Ext. TEACH-IN input

The desired contrast recognition capability can be adjusted by applying of a logic "high" pulse with a certain pulse length when the switch is in position T.

50 ms (30 ms ... 100 ms) 150 ms (100 ms ... 200 ms)

III: > 200 ms

Mode selector in position T.