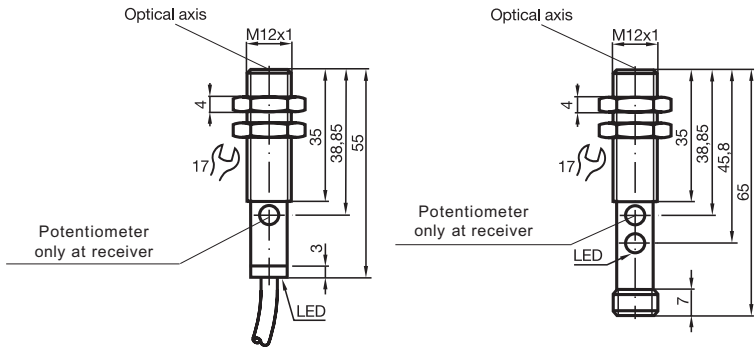


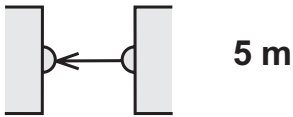
Through-Beam Photoelectric Sensor



Cable design

Plug design M12 x 1 (-V1)

OBE5000-12GM55-S □ *1- □ *2



Features

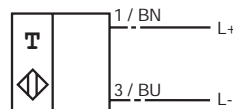
- 5 m adjustable sensing range
- Light/dark ON, wiring dependent
- Visible red light
- Protection class IP 67

Cable sockets, mounting aids etc. see "Accessories" section

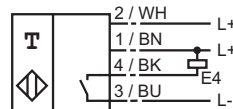
e. g. cable sockets: V1-G-2M-PUR (straight)
V1-W-2M-PUR (angled)

Electrical connection

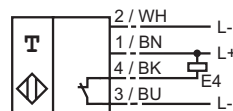
Emitter



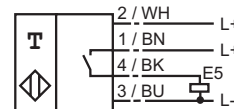
E4, N.O. (Dark ON):



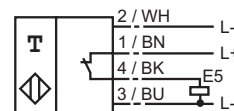
E4, N.C. (Light ON):



E5, N.O. (Dark ON):



E5, N.C. (Light ON):



*1 - electrical connection
*2 - mechanical connection

Technical data

| | |
|---------------------------------|--|
| Model number | OBE5000-12GM55-SE4 OBE5000-12GM55-SE4-V1 OBE5000-12GM55-SE5 OBE5000-12GM55-SE5-V1 |
| Sensing range | 5000 mm |
| Reference card size | Receiver |
| Blind range | ≤ 5 mm |
| Adjustment of the sensing range | with potentiometer |
| Detectable target | Opaque objects |
| Switch frequency | 500 Hz |
| ON delay | 1 ms |
| Readiness delay | 25 ms |
| Distance hysteresis | ≤ 10 % |
| Operating mode | Light/dark ON wiring dependent (WH) |
| Indicator LED yellow | Switch status |
| Light source | Red light 660 nm |
| Ambient light limit | Sunlight ≤ 20 000 Lux Halogen light ≤ 5 000 Lux |
| Operating temperature | 248 Kelvin ... 328 Kelvin (-25 °C ... +55 °C) |
| Storage temperature | 273 Kelvin ... 343 Kelvin (-40 °C ... +70 °C) |
| Electrical data | |
| Rated operational voltage | 10 V DC ... 30 V DC, ripple 10 % _{SS} |
| Current consumption | ≤ 20 mA |
| Switch output | E4: npn, N.O./N.C. E5: pnp, N.O./N.C. |
| Rated operational current | 300 mA circuit/overload proof |
| Voltage drop | ≤ 3 V |
| Mechanical data | |
| Protection class to IEN 60 529 | IP 67 |
| Optical system material | 2 lens system polycarbonate |
| Allowable shock- and | b ≤ 30 g , T ≤ 1 ms |
| Vibration resistance | f ≤ 55 Hz , a ≤ 1 mm |
| Connection type | 2 m PVC - cable, 4 x 0.14 mm ² / V1 plug connector |
| Housing | Nickel plated brass |
| Material front lens | PMMA |
| Weight | 15 g |
| Conforms to | EN 60 947-5-2 |

Characteristic response curve

Permissible separation (offset) between the optical axis of the emitter and receiver.

