

Rectangular OSM70



Description:

Metal housing, 150m laser through-beam, 30m laser mirror, 25m laser polarization mirror, 3m laser BGS diffuse detection distance, Using the same pumping technology, no blind zone, Precise positioning, wide voltage supply, relay output

Features:

- BGS greatly improves detection effect
- Long detection distance
- Adjust the sensitivity by knob
- IP67 protection grade
- Push-pull / relay output

Type List (laser source)

| Detection mode | Model | Detection distance | Light source | Switching frequency | Output | Switch mode | Connection | Wiring diagram |
|------------------|-------------------|--------------------|--------------|---------------------|-----------|-------------------|---------------------|----------------|
| Through-beam | OSM70-SL6 | 150m | Laser | --- | --- | --- | 2-meter cable | Fig. 1 |
| | OSM70-ELVB6 | | --- | 1KHz | Push-Pull | Light on/ Dark on | 2-meter cable | Fig. 4 |
| | OSM70-SL6Q | 150m | Laser | --- | --- | --- | M12 4-pin connector | Fig. 2 |
| | OSM70-ELVB6Q | | --- | 1KHz | Push-Pull | Light on/ Dark on | M12 4-pin connector | Fig. 4 |
| | OSM70-SL5 | 150m | Laser | --- | --- | --- | 2-meter cable | Fig. 3 |
| | OSM70-ELVR5 | | --- | 50Hz | Relay | Light on/ Dark on | 2-meter cable | Fig. 5 |
| Laser mirror | OSM70-RLVB6 | 30m | Laser | 1KHz | Push-Pull | Light on/ Dark on | 2-meter cable | Fig. 4 |
| | OSM70-RLVB6Q | 30m | Laser | 1KHz | Push-Pull | Light on/ Dark on | M12 4-pin connector | Fig. 4 |
| | OSM70-RLVR5 | 30m | Laser | 50Hz | Relay | Light on/ Dark on | 2-meter cable | Fig. 5 |
| Polarized mirror | OSM70-RPLVB6 | 25m | Laser | 1KHz | Push-Pull | Light on/ Dark on | 2-meter cable | Fig. 4 |
| | OSM70-RPLVB6Q | 25m | Laser | 1KHz | Push-Pull | Light on/ Dark on | M12 4-pin connector | Fig. 4 |
| | OSM70-RPLVR5 | 25m | Laser | 50Hz | Relay | Light on/ Dark on | 2-meter cable | Fig. 5 |
| BGS | OSM70-AKL3000VB6 | 3m | Laser | 50Hz | Push-Pull | Light on/ Dark on | 2-meter cable | Fig. 4 |
| | OSM70-AKL3000VB6Q | 3m | Laser | 50Hz | Push-Pull | Light on/ Dark on | M12 4-pin connector | Fig. 4 |
| | OSM70-AKL3000VR5 | 3m | Laser | 50Hz | Relay | Light on/ Dark on | 2-meter cable | Fig. 5 |

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Technical Data:

| | |
|------------------------|---|
| Supply voltage | 10...30VDC (push-pull), 24...240VAC/DC (relay) |
| Ripple voltage | ±10% of UB |
| Switch output | Push-Pull |
| Output characteristics | Light on/ Dark on |
| Repeat error | ≤3% |
| Light source | 650nm laser |
| Spot diameter | 5mm (7m) |
| No-load current | ≤30mA |
| Load current | ≤450mA (push-pull), ≤3A (relay) |
| Protection circuit | Reverse polarity protection, short circuit protection, surge protection (relay) |
| LED | Power (green), switch (red) |
| Housing material | Die-cast aluminum |
| Connection | M12 connector / 2 meter cable |
| Operating temperature | -25°C...55°C |
| Storage temperature | -40°C...70°C |
| Environment humidity | 35...85RH |
| Protection grade | IP67 |
| Dimensions | 27×54×84 |

Wiring diagram:

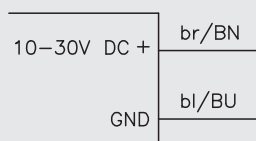


Fig. 1

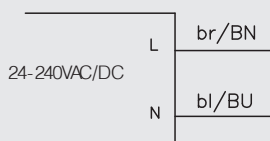


Fig. 3

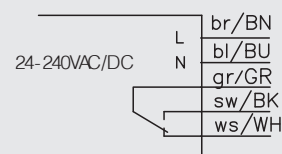


Fig. 5

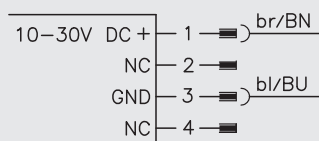
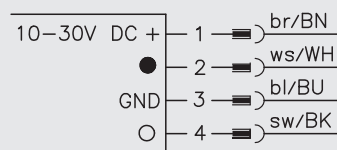


Fig. 2



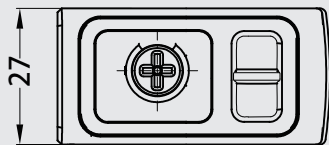
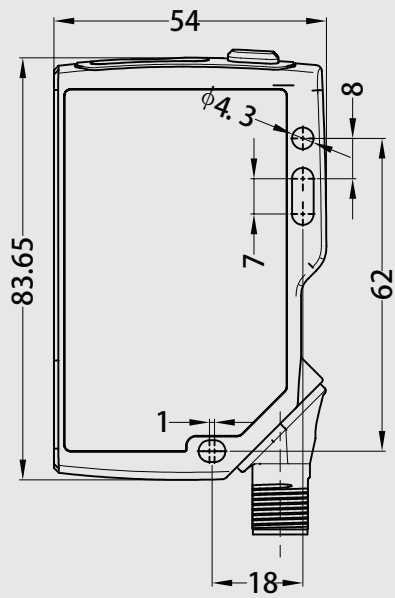
○ = Light on
● = Dark on

Fig. 4

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Dimensions:

M12 connector



2 meter cable

