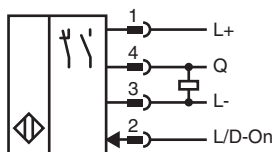


Technical Data

| | | |
|---|----------------|---|
| Hysteresis | H | < 15 % |
| Functional safety related parameters | | |
| MTTF _d | | 854 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Indicators/operating means | | |
| Operation indicator | | LED green: on - power on flashing (4 Hz) - short circuit |
| Function indicator | | LED yellow: constantly on - object detected constantly off - object not detected |
| Control elements | | sensitivity adjustment |
| Control elements | | light/dark on electrically switchable |
| Electrical specifications | | |
| Operating voltage | U _B | 10 ... 30 V DC |
| Ripple | | max. 10 % |
| No-load supply current | I ₀ | < 25 mA |
| Protection class | | III |
| Output | | |
| Switching type | | The switching type of the sensor is adjustable. The default setting is: Q - Pin4: PNP output / light-on L/D-On - Pin2: Low-active input |
| Signal output | | 1 PNP output, short-circuit protected, reverse polarity protected, open collector |
| Switching voltage | | max. 30 V DC |
| Switching current | | max. 100 mA , resistive load |
| Voltage drop | U _d | ≤ 2 V DC |
| Switching frequency | f | 500 Hz |
| Response time | | ≤ 1 ms |
| Conformity | | |
| Product standard | | EN 60947-5-2 |
| Approvals and certificates | | |
| UL approval | | E87056 , cULus Listed , class 2 power supply , type rating 1 |
| Ambient conditions | | |
| Ambient temperature | | -40 ... 60 °C (-40 ... 140 °F) |
| Storage temperature | | -40 ... 70 °C (-40 ... 158 °F) |
| Mechanical specifications | | |
| Degree of protection | | IP67 |
| Connection | | 4-pin, M12 x 1 connector |
| Material | | |
| Housing | | brass, nickel-plated |
| Optical face | | PMMA |
| Connector | | plastic |
| Mass | | approx. 24 g |

Connection



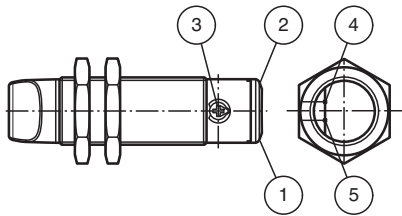
Connection Assignment



Wire colors in accordance with EN 60947-5-2

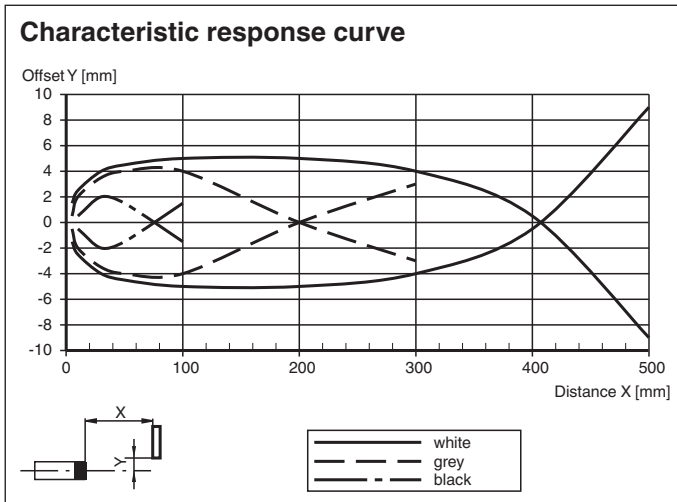
| | | |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |

Indication



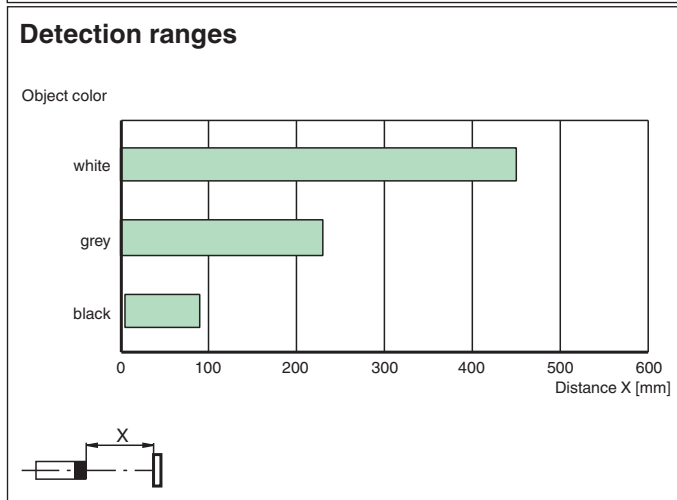
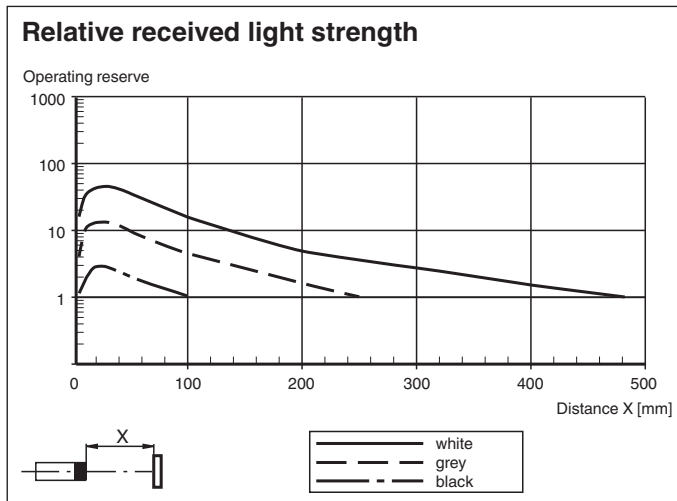
| | | |
|---|------------------------|--------|
| 1 | Operating display | green |
| 2 | Signal display | yellow |
| 3 | Sensitivity adjustment | |
| 4 | Emitter | |
| 5 | Receiver | |

Characteristic Curve



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Characteristic Curve



Accessories

| | | |
|--|--------------------|---|
| | V1-W-2M-PUR | Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey |
| | V1-G-2M-PUR | Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey |
| | OMH-04 | Mounting aid for round steel \varnothing 12 mm or sheet 1.5 mm ... 3 mm |
| | BF 18 | Mounting flange, 18 mm |
| | BF 18-F | Plastic mounting adapter, 18 mm |
| | BF 5-30 | Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm |
| | CPZ18B03 | Mounting Bracket with swivel nut |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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