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# Technical Data

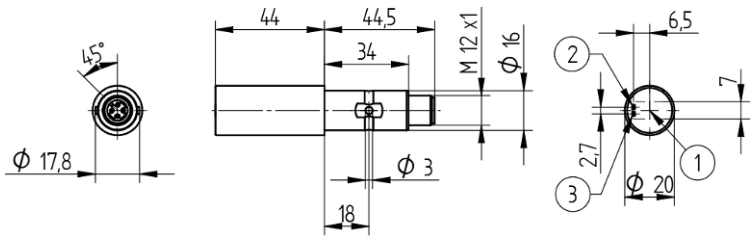
# OKI403C0103

# Retro-Reflex Sensor

for Transparent Objects



| Symbol | Key |
|---|---|
| 1 | Optical axis |
| 2 | Operating Status Indicator |
| 3 | Contamination warning |




EN

Dimensions in mm
Subject to change without notice
Version 0
**www.wenglor.com**

## Technical data

| Optical Data | |
|---|---|
| Range | 4000 mm |
| Reference Reflector/Reflector Foil | RQ100BA |
| Clear Glass Recognition | yes |
| Switching Hysteresis | < 5 % |
| Light Source | LED, red |
| Polarization Filter | yes |
| Service Life (T = +25 °C) | 100000 h |
| Max. Ambient Light | 10000 Lux |
| Opening Angle | 3 ° |
| Optics | Single-Lens Optic |

| Electrical Data | |
|---|---|
| Supply Voltage | 10...30 V DC |
| Current Consumption (Ub = 24 V) | < 40 mA |
| Switching Frequency | 1600 Hz |
| Response Time | 313 µs |
| On-/Off-Delay (RS-232) | 0...5 s |
| Temperature Drift | < 5 % |
| Temperature Range | -10...60 °C |
| Switching Output Voltage Drop | < 2.5 V |
| PNP Switching Output/Switching Current | 200 mA |
| Residual Current Switching Output | < 50 µA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Lockable | yes |
| Teach Mode | NT, MT, XT |
| Protection Class | III |

| Mechanical Data | |
|---|---|
| Setting Method | Teach-In |
| Housing Material | Stainless steel, V4A (1.4404/316L) |
| Degree of Protection | IP69K<br>IP68 |
| Connection Type | Plug variant |
| Connection | M12 × 1; 4-pin |
| Optic Cover | Plastic, PMMA (FDA) |

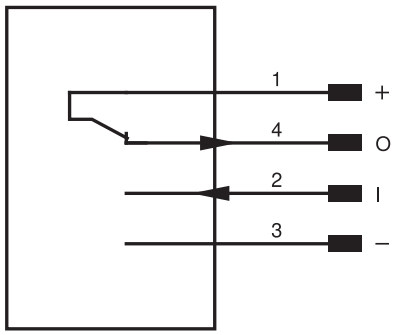
| General Data | |
|---|---|
| Approvals | FDA compliant |

| Adjustable parameters | |
|---|---|
| Circuit | NC<br>NC/NO<br>NO |

All other parameters can be found in the product documentation.

| BMECat data | |
|---|---|
| eCl@ss 5.1.4 | 27-27-09-02 Reflection light barrier |
| eCl@ss 6.x | 27-27-09-02 Détecteur photoélectrique reflex |
| eCl@ss 7.0 | 27-27-09-02 Reflection light barrier |
| eCl@ss 7.1 | 27-27-09-02 Reflection light barrier |
| eCl@ss 8.x | 27-27-09-02 Reflection light barrier |
| eCl@ss 10.0.1 | 27-27-09-02 Détecteur photoélectrique reflex |

## Technical illustrations




| Pin | Pin function | Polarity | Circuit |
|---|---|---|---|
| 1 | Supply Voltage + | | |
| 2 | | High activ | |
| 3 | Supply voltage 0 V | | |
| 4 | Switching output | PNP | NC |

| Reflector data | |
|---|---|
| RQ100BA | 0...4 m |
| RE18040BA | 0...2.5 m |
| RQ84BA | 0...3.5 m |
| RR84BA | 0...4 m |
| RE9538BA | 0...1.5 m |
| RE6151BM | 0...3.4 m |
| RR50_A | 0...2.6 m |
| RE6040BA | 0...3.2 m |
| RE8222BA | 0...1.9 m |
| RR34_M | 0...1.6 m |
| RE3220BM | 0...0.8 m |
| RE6210BM | 0...0.7 m |
| RR25_M | 0...1 m |
| RR25KP | 0...0.55 m |
| RR21_M | 0...0.9 m |
| Z90R001 | 0...0.7 m |
| ZRAE02B01 | 0...1.6 m |

| Reflector data | |
|---|---|
| ZRDS01R01 | 0...0.7 m |
| ZRME01B01 | 0...0.4 m |
| ZRME03B01 | 0...1.6 m |
| ZRMR02K01 | 0...0.5 m |
| ZRMS02_01 | 0...0.7 m |
| Z90R012 | 0...1 m |
| Z90R013 | 0...2.43 m |
| Z90R014 | 0...2.1 m |
| Z90R015 | 0...1.2 m |

Reflector type, mounting distance