

Reflex Sensor

OTII802C0203

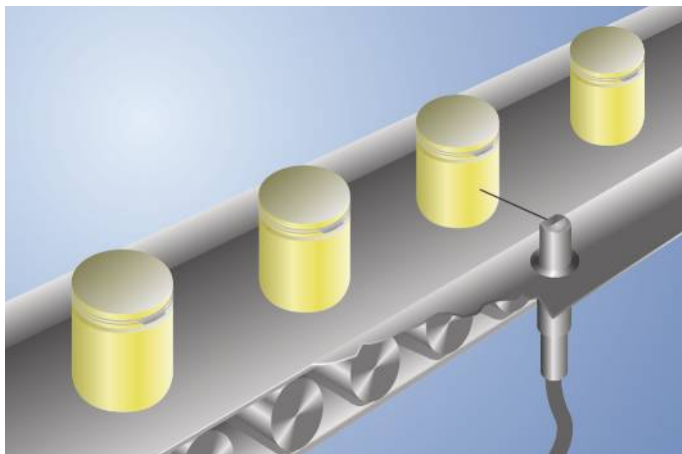
Part Number

InoxSens



- Hygienic design makes it easy to clean
- Made with food safe materials that are FDA approved
- Touch teach-in, external teach-in
- Waterproof (IP68/IP69K)

InoxSens is the hygiene series from wenglor. The innovative design of InoxSens sensors allows contamination and cleaning agents to flow off by themselves. A variety of components form a complete system which integrates seamlessly into the machine. The laser welded stainless steel housing made of V4A (1.4404/316L) is corrosion-free and resistant to cleaning agents. Gap-free mounting with InoxLock and the captive optics further contribute to these sensors' optimal suitability for cleaning-heavy environments. The InoxSens sensors are set up with the help of touch teach-in and is made possible by the hermetically sealed housing.

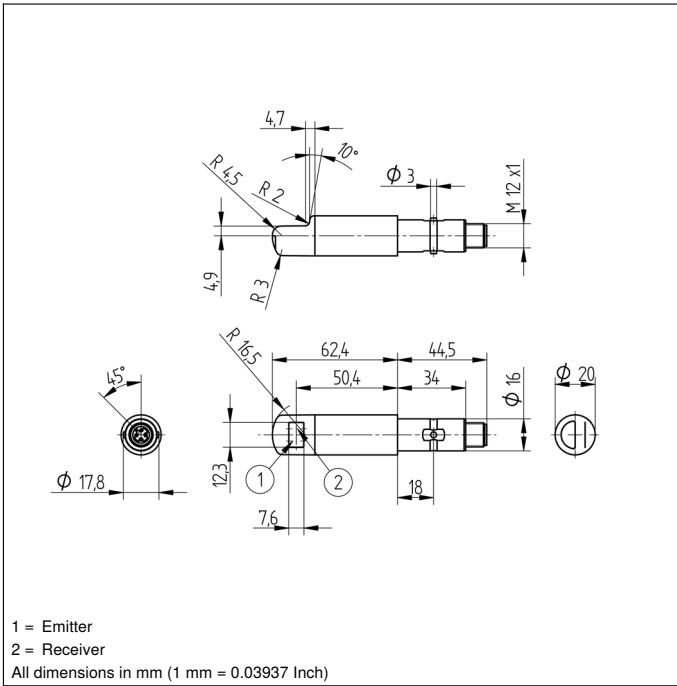


Technical Data

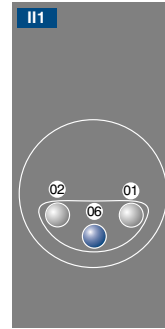
| Optical Data | |
|---|----------------------|
| Range | 800 mm |
| Switching Hysteresis | < 15 % |
| Light Source | Infrared Light |
| Wavelength | 880 nm |
| Service Life (T = +25 °C) | 100000 h |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | see Table 1 |
| Electrical Data | |
| Supply Voltage | 10...30 V |
| Current Consumption (U _b = 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 | -25...60 °C |
| Switching Output Voltage Drop | < 2,5 V |
| PNP Switching Output/Switching Current | 200 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Lockable | yes |
| Teach Mode | NT, MT |
| Protection Class | III |
| Mechanical Data | |
| Setting Method | Teach-In |
| Housing Material | Stainless Steel 316L |
| Degree of Protection | IP68/IP69K |
| Connection | M12 × 1; 4-pin |
| Optic Cover | Glass |
| Material Control Panel | PC (FDA) |
| Ecolab | yes |
| PNP NO/NC switchable | ● |
| RS-232 with Adapterbox | ● |
| Connection Diagram No. | 152 |
| Control Panel No. | 111 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 140 490 |

Complementary Products

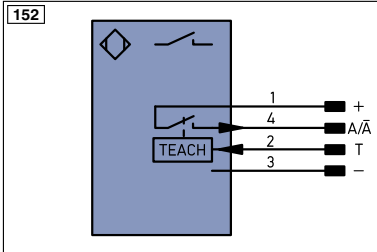
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|-------------------------------|
| Adapterbox A232 |
| PNP-NPN Converter BG2V1P-N-2M |
| Software |



Ctrl. Panel



01 = Switching Status Indicator
 02 = Contamination Warning
 06 = Teach Button



Legend

| | | | | | |
|-----------------------|--|------------------|--------------------------------|--------------------------------------|---------------------|
| + | Supply Voltage + | PT | Platinum measuring resistor | EN ^A RS422 | Encoder A/Ā (TTL) |
| - | Supply Voltage 0 V | nc | not connected | EN ^B RS422 | Encoder B/B̄ (TTL) |
| ~ | Supply Voltage (AC Voltage) | U | Test Input | EN ^A | Encoder A |
| A | Switching Output (NO) | Ū | Test Input inverted | EN ^B | Encoder B |
| Ā | Switching Output (NC) | W | Trigger Input | A ^{MIN} | Digital output MIN |
| V | Contamination/Error Output (NO) | W- | Ground for the Trigger Input | A ^{MAX} | Digital output MAX |
| Ṽ | Contamination/Error Output (NC) | O | Analog Output | A ^{OK} | Digital output OK |
| E | Input (analog or digital) | O- | Ground for the Analog Output | SY ^{In} | Synchronization In |
| T | Teach Input | BZ | Block Discharge | SY ^{OUT} | Synchronization OUT |
| Z | Time Delay (activation) | A ^{MV} | Valve Output | OL ^T | Brightness output |
| S | Shielding | a | Valve Control Output + | M | Maintenance |
| RxD | Interface Receive Path | b | Valve Control Output 0 V | rsv | reserved |
| TxD | Interface Send Path | SY | Synchronization | Wire Colors according to DIN IEC 757 | |
| RDY | Ready | SY- | Ground for the Synchronization | BK | Black |
| GND | Ground | E+ | Receiver-Line | BN | Brown |
| CL | Clock | S+ | Emitter-Line | RD | Red |
| E/A | Output/Input programmable | ± | Grounding | OG | Orange |
| | IO-Link | S ⁿ R | Switching Distance Reduction | YE | Yellow |
| PoE | Power over Ethernet | Rx+/- | Ethernet Receive Path | GN | Green |
| IN | Safety Input | Tx+/- | Ethernet Send Path | BU | Blue |
| OSSD | Safety Output | Bus | Interfaces-Bus A(+)/B(-) | VT | Violet |
| Signal | Signal Output | L ^a | Emitted Light disengageable | GY | Grey |
| Bl_D+/- | Ethernet Gigabit bidirect. data line (A-D) | Mag | Magnet activation | WH | White |
| EN ⁰ RS422 | Encoder 0-pulse 0-0̄ (TTL) | RES | Input confirmation | PK | Pink |
| | | EDM | Contacting Monitoring | GNVE | Green/Yellow |

Table 1

| Detection Range | 100 mm | 500 mm | 800 |
|---------------------|--------|--------|-------|
| Light Spot Diameter | 19 mm | 40 mm | 55 mm |

