

Inductive Sensor with Full-Metal Housing

I18G002

Part Number

weproTec



- Easy sensor configuration using the IO-Link interface
- Innovative ASIC circuit technology
- IP68/IP69K
- Minimal mounting clearance thanks to wenglor weproTec
- Stainless steel housing

The inductive sensors with full-metal housing are suitable for harsh ambient conditions and washdown areas thanks to the 316L stainless steel housing. The sensors with full-metal housing impress with their easy installation and reliable switching behavior. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late thanks to ASIC, IO-Link interface and wenglor weproTec.

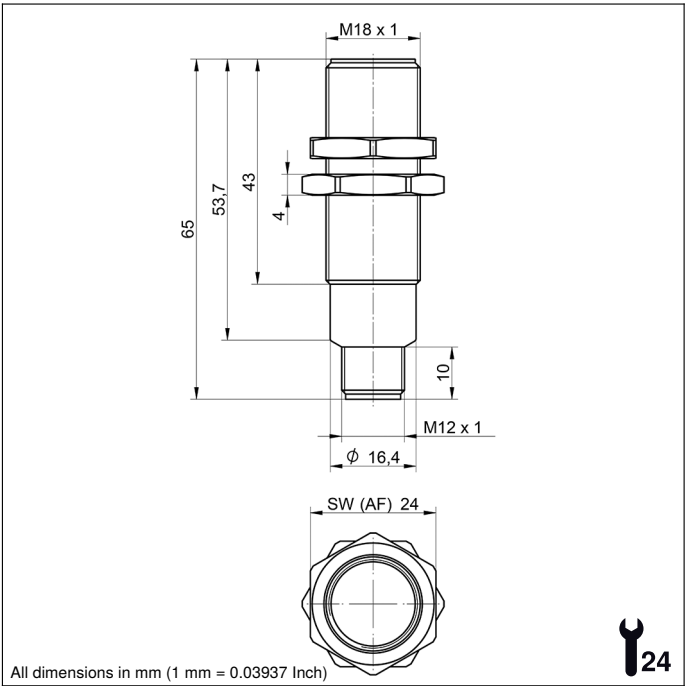
Technical Data

| Inductive Data | |
|--|--------------------------------------|
| Switching Distance | 10 mm |
| Correction Factors Stainless Steel V2A/CuZn/Al | 0,94/0,35/0,31 |
| Mounting | Flush |
| Mounting A/B/C/D in mm | 0/35/30/0 |
| Mounting A/B/C/D (V2A) in mm | 0/25/30/0 |
| Mounting B1 in mm | 0...10 |
| Installation B1 (V2A) in mm | 0...8 |
| Switching Hysteresis | < 10 % |
| Electrical Data | |
| Supply Voltage | 10...30 V DC |
| Supply Voltage with IO-Link | 18...30 V DC |
| Current Consumption (U _b = 24 V) | < 15 mA |
| Switching Frequency | 386 Hz |
| Temperature Drift | < 10 % |
| Temperature Range | -25...70 °C |
| Switching Output Voltage Drop | < 1 V |
| Switching Output/Switching Current | 100 mA |
| Residual Current Switching Output | < 100 µA |
| Short Circuit Protection | yes |
| Reverse Polarity and Overload Protection | yes |
| Protection Class | III |
| Interface | IO-Link V1.1 |
| Mechanical Data | |
| Housing Material | Stainless steel, V4A (1.4404 / 316L) |
| Sensing face | Stainless steel, V4A |
| Full Encapsulation | yes |
| Degree of Protection | IP67/IP68/IP69K * |
| Connection | M12 × 1; 4-pin |
| Torque | max. 45 Nm |
| Pressure Resistance Sensor Area | 15 bar |
| EX II 3D Ex tc IIIC T90° Dc | yes |
| EX II 3G Ex ic IIC T5 Gc | yes |
| Safety-relevant Data | |
| MTTFd (EN ISO 13849-1) | 3706,54 a |
| Packaging unit | 1 Piece |
| PNP NC, PNP NO | ● |
| Connection Diagram No. | 215 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 150 |

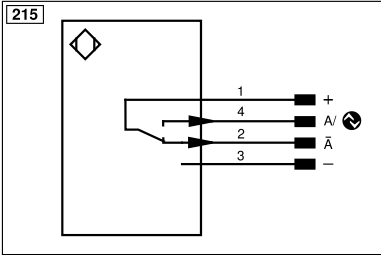
* For applications inside hazardous areas: IP67

Complementary Products

IO-Link Master



All dimensions in mm (1 mm = 0.03937 Inch)



| Legend | | | |
|-----------|--|--|--------------------------------|
| + | Supply Voltage + | nc | Not connected |
| - | Supply Voltage 0 V | U | Test Input |
| ~ | Supply Voltage (AC Voltage) | Ü | Test Input inverted |
| A | Switching Output (NO) | W | Trigger Input |
| Ä | Switching Output (NC) | W- | Ground for the Trigger Input |
| V | Contamination/Error Output (NO) | O | Analog Output |
| Ÿ | Contamination/Error Output (NC) | O- | Ground for the Analog Output |
| E | Input (analog or digital) | BZ | Block Discharge |
| T | Teach Input | Amv | Valve Output |
| Z | Time Delay (activation) | a | Valve Control Output + |
| S | Shielding | b | Valve Control Output 0 V |
| RxD | Interface Receive Path | SY | Synchronization |
| TxD | Interface Send Path | SY- | Ground for the Synchronization |
| RDY | Ready | E+ | Receiver-Line |
| GND | Ground | S+ | Emitter-Line |
| CL | Clock | ± | Grounding |
| E/A | Output/Input programmable | SnR | Switching Distance Reduction |
| IO-Link | IO-Link | Rx+/- | Ethernet Receive Path |
| PoE | Power over Ethernet | Tx+/- | Ethernet Send Path |
| IN | Safety Input | Bus | Interfaces-Bus A(+)/B(-) |
| OSSD | Safety Output | La | Emitted Light disengageable |
| Signal | Signal Output | Mag | Magnet activation |
| BL_D+/- | Ethernet Gigabit bidirect. data line (A-D) | RES | Input confirmation |
| ENo RS422 | Encoder 0-pulse 0/Ü (TTL) | EDM | Contact Monitoring |
| PT | Platinum measuring resistor | ENARIS422 | Encoder A/Ä (TTL) |
| | | ENBRIS422 | Encoder B/B (TTL) |
| | | ENA | Encoder A |
| | | ENB | Encoder B |
| | | AMIN | Digital output MIN |
| | | AMAX | Digital output MAX |
| | | AOK | Digital output OK |
| | | SY In | Synchronization In |
| | | SY OUT | Synchronization OUT |
| | | OLT | Brightness output |
| | | M | Maintenance |
| | | rsv | Reserved |
| | | Wire Colors according to DIN IEC 60757 | |
| | | BK | Black |
| | | BN | Brown |
| | | RD | Red |
| | | OG | Orange |
| | | YE | Yellow |
| | | GN | Green |
| | | BU | Blue |
| | | VT | Violet |
| | | GY | Grey |
| | | WH | White |
| | | PK | Pink |
| | | GNYE | Green/Yellow |

Mounting

