

Inductive Sensor with IO-Link

I30H013

Part Number

weproTec



- Easy sensor configuration using the IO-Link interface
- Innovative ASIC circuit technology
- Integrated error display and error output
- Minimal mounting clearance thanks to wenglor weproTec

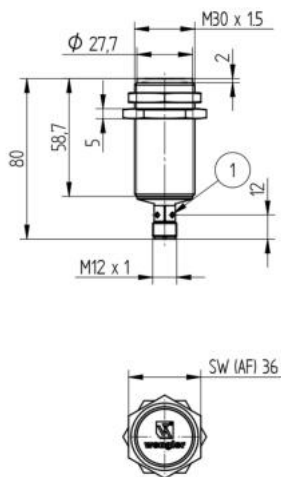
The Inductive Sensors have not only been equipped with ASIC, but rather with an IO-Link interface as well for ideal integration into networks. As a result, a total of three switching distances and two switching frequencies can be selected, and PNP/NPN as well as NO/NC/antivalent options can be set as desired. This reduces the number of variants while simultaneously expanding the scope of functions.

Technical Data

| Inductive Data | |
|--|---------------------|
| Switching Distance | 22 mm |
| Standard Target | 66 × 66 mm |
| Correction Factors Stainless Steel V2A/CuZn/Al | 0,85/0,35/0,34 |
| Mounting | semi-flush |
| Mounting A/B/C/D in mm | 35/49/66/7 |
| Mounting B1 in mm | 0...40 |
| 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) | < 12 mA |
| Switching Frequency | 500 Hz |
| Temperature Drift | < 10 % |
| Temperature Range | -40...80 °C |
| Switching Output Voltage Drop | < 1 V |
| Switching Output/Switching Current | 150 mA |
| Residual Current Switching Output | < 100 µA |
| Short Circuit Protection | yes |
| Reverse Polarity and Overload Protection | yes |
| Interface | IO-Link V1.1 |
| Protection Class | III |
| Mechanical Data | |
| Housing Material | CuZn, nickel-plated |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 4-pin |
| Safety-relevant Data | |
| MTTFd (EN ISO 13849-1) | 3706,54 a |
| Function | |
| Error Indicator | yes |
| Programmable switching distance | 15/20/22 mm |
| Programmable switching frequency | yes |
| IO-Link | ● |
| Switchable to NC/NO | ● |
| Configurable as PNP/NPN/Push-Pull | ● |
| Programmable error output | ● |
| Connection Diagram No. | 704 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 130 132 |

Complementary Products

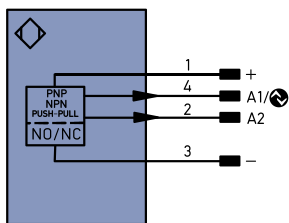
IO-Link Master
Software



1 = Switching Status Indicator
Sleeve M30×1,5 = 50 Nm
All dimensions in mm (1 mm = 0.03937 Inch)



704



Legend

| | | | |
|----------|--|-------|--------------------------------|
| + | Supply Voltage + | PT | Platinum measuring resistor |
| - | Supply Voltage 0 V | nc | not connected |
| ~ | Supply Voltage (AC Voltage) | U | Test Input |
| A | Switching Output (NO) | U | Test Input inverted |
| Ā | Switching Output (NC) | W | Trigger Input |
| V | Contamination/Error Output (NO) | W- | Ground for the Trigger Input |
| Ṽ | Contamination/Error Output (NC) | O | Analog Output |
| E | Input (analog or digital) | O- | Ground for the Analog Output |
| T | Teach Input | BZ | Block Discharge |
| Z | Time Delay (activation) | AWV | Valve Output |
| S | Shielding | a | Valve Control Output + |
| RxD | Interface Receive Path | b | Valve Control Output 0 V |
| TxD | Interface Send Path | SY | Synchronization |
| RDY | Ready | SY- | Ground for the Synchronization |
| GND | Ground | E+ | Receiver-Line |
| CL | Clock | S+ | Emitter-Line |
| E/A | Output/Input programmable | ± | Grounding |
| IO-Link | IO-Link | SnR | Switching Distance Reduction |
| PoE | Power over Ethernet | Rx+/- | Ethernet Receive Path |
| IN | Safety Input | Tx+/- | Ethernet Send Path |
| OSSD | Safety Output | Bus | Interfaces-Bus A(+)/B(-) |
| Signal | Signal Output | La | Emitted Light disengageable |
| BL-D+/- | Ethernet Gigabit bidirect. data line (A-D) | Mag | Magnet activation |
| EN0.5542 | Encoder 0-pulse 0-0 (TTL) | RES | Input confirmation |
| | | EDM | Contacting Monitoring |

| | |
|--------------------------------------|---------------------|
| EN0.5542 | Encoder A/Ā (TTL) |
| EN0.5542 | Encoder B/B̄ (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 757 | |
| 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

