Inductive Sensor with IO-Link

11QH005

Part Number



- 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

Technical Data

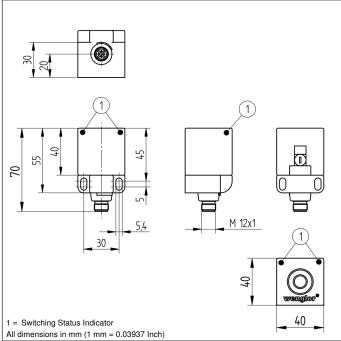
| Inductive Data | | | |
|--|----------------|--|--|
| Switching Distance | 20 mm | | |
| Standard Target | 60 × 60 mm | | |
| Correction Factors Stainless Steel V2A/CuZn/Al | 0,83/0,32/0,31 | | |
| Mounting | flush | | |
| Mounting A/B/C/D in mm | 0/40/60/0 | | |
| Mounting B1 in mm | 635 | | |
| Switching Hysteresis | < 10 % | | |
| Electrical Data | | | |
| Supply Voltage | 1030 V DC | | |
| Supply Voltage with IO-Link | 1830 V DC | | |
| Current Consumption (Ub = 24 V) | < 15 mA | | |
| Switching Frequency | 620 Hz | | |
| Temperature Drift | < 10 % | | |
| Temperature Range | -4080 °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 V1.0 | | |
| Protection Class | 111 | | |
| Mechanical Data | | | |
| Housing Material | Plastic | | |
| Full Encapsulation | yes | | |
| 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 | 12/15/20 mm | | |
| Programmable switching frequency | yes | | |
| IO-Link | | | |
| Switchable to NC/NO | | | |
| Configurable as PNP/NPN/Push-Pull | Ŭ. | | |
| Programmable error output | Ū. | | |
| Connection Diagram No. | 704 | | |
| Suitable Connection Technology No. | 2 | | |
| | | | |

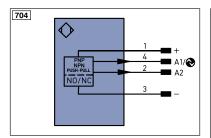
The Inductive Sensors have not only been equipped with ASIC, but rather with an IO-Link interface as well for ideal integration into networks. As a result, a total of three switching distances and two switching frequencies can be selected, and PNP/NPN as well as NO/NC/antivalent options can be set as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

Complementary Products

IO-Link Master Software weproTec

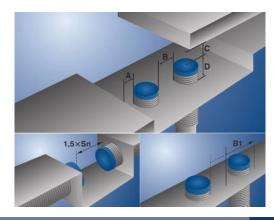






| Legend | | PŤ | Platinum measuring resistor | ENA | Encoder A |
|---------|--|----------|------------------------------|---|---------------------|
| + | Supply Voltage + | nc | not connected | ENв | Encoder B |
| - | Supply Voltage 0 V | U | Test Input | Amin | Digital output MIN |
| ~ | Supply Voltage (AC Voltage) | Ū | Test Input inverted | Амах | Digital output MAX |
| А | Switching Output (NO) | W | Trigger Input | Аок | Digital output OK |
| Ā | Switching Output (NC) | 0 | Analog Output | SY In | Synchronization In |
| V | Contamination/Error Output (NO) | 0- | Ground for the Analog Output | SY OUT | Synchronization OUT |
| V | Contamination/Error Output (NC) | BZ | Block Discharge | OLT | Brightness output |
| E | Input (analog or digital) | Awv | Valve Output | м | Maintenance |
| Т | Teach Input | a | Valve Control Output + | | |
| Z | Time Delay (activation) | b | Valve Control Output 0 V | | |
| S | Shielding | SY | Synchronization | Wire Colors according to DIN IEC 757 | |
| RxD | Interface Receive Path | E+ | Receiver-Line | | |
| TxD | Interface Send Path | S+ | Emitter-Line | BK | Black |
| RDY | Ready | ÷ | Grounding | BN | Brown |
| GND | Ground | SnR | Switching Distance Reduction | RD | Red |
| CL | Clock | Rx+/- | Ethernet Receive Path | OG | Orange |
| E/A | Output/Input programmable | Tx+/- | Ethernet Send Path | YE | Yellow |
| ۲ | IO-Link | Bus | Interfaces-Bus A(+)/B(-) | GN | Green |
| PoE | Power over Ethernet | La | Emitted Light disengageable | BU | Blue |
| IN | Safety Input | Mag | Magnet activation | VT | Violet |
| OSSD | Safety Output | RES | Input confirmation | GY | Grey |
| Signal | Signal Output | EDM | Contactor Monitoring | WH | White |
| BI_D+/- | Ethernet Gigabit bidirect. data line (A-D) | ENARS422 | Encoder A/Ā (TTL) | PK | Pink |
| | Encoder 0-pulse 0-0 (TTL) | | Encoder B/B (TTL) | GNYE | Green/Yellow |

Mounting





Specifications are subject to change without notice