Inductive Sensor with Increased Switching Distance

I1AH004

Part Number

weproTec

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Technical Data

| Inductive Data | | | |
|------------------------------------------------|---------------------|--|--|
| Switching Distance | 2 mm | | |
| Correction Factors Stainless Steel V2A/CuZn/Al | 0,78/0,45/0,42 | | |
| Mounting | flush | | |
| Mounting A/B/C/D in mm | 0/9/6/0 | | |
| Mounting B1 in mm | 02 | | |
| Switching Hysteresis | < 10 % | | |
| Electrical Data | | | |
| Supply Voltage | 1030 V DC | | |
| Current Consumption (Ub = 24 V) | < 5 mA | | |
| Switching Frequency | 1120 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 | | |
| Protection Class | III | | |
| Mechanical Data | | | |
| Housing Material | CuZn, nickel-plated | | |
| Degree of Protection | IP67 | | |
| Connection | M8 × 1; 3-pin | | |
| Safety-relevant Data | | | |
| MTTFd (EN ISO 13849-1) | 3706,54 a | | |
| Function | | | |
| Error Indicator | yes | | |
| PNP NC | | | |
| Connection Diagram No. | 109 | | |
| Suitable Connection Technology No. | 8 | | |
| Suitable Mounting Technology No. | 240 | | |

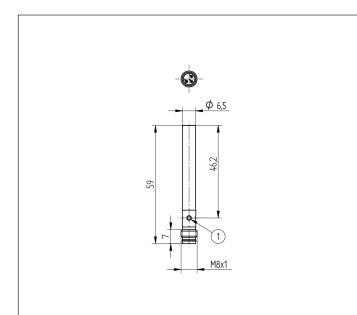
- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. 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 und wenglor weproTec.

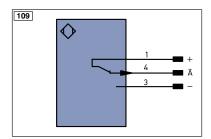
Complementary Products

PNP-NPN Converter BG8V1P-N-2M





1 = Switching Status Indicator Sleeve 6,5 mm dia. = 8 Nm All dimensions in mm (1 mm = 0.03937 Inch)



| Legend PT Platinum magnuting resistor ENA Encoder A | | | | | | | |
|-----------------------------------------------------|--------------------------------------------|---------|------------------------------|--------------------------|---------------------|--|--|
| | | PT | 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 | | |
| Е | 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 | | | |
| RxD | Interface Receive Path | E+ | Receiver-Line | DIN IE | DIN IEC 757 | | |
| 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 | | |
| 0 | 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 | | |
| | Ethernet Gigabit bidirect. data line (A-D) | ENARS42 | 2 Encoder A/Ā (TTL) | PK | Pink | | |
| EN0 RS42 | Encoder 0-pulse 0-0 (TTL) | ENBR54Z | 2 Encoder B/B (TTL) | GNYE | Green/Yellow | | |

Mounting

