

Part Number



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

Technical Data

Inductive Data

| | |
|--|----------------|
| Switching Distance | 15 mm |
| Correction Factors Stainless Steel V2A/CuZn/Al | 0,70/0,36/0,34 |
| Mounting | flush |
| Mounting A/B/C/D in mm | 0/30/45/0 |
| Mounting B1 in mm | 0...11 |
| Switching Hysteresis | < 10 % |

Electrical Data

| | |
|--|--------------|
| Supply Voltage | 10...30 V DC |
| Current Consumption (Ub = 24 V) | < 10 mA |
| Switching Frequency | 480 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 |
| Protection Class | III |

Mechanical Data

| | |
|-----------------------|---------------------|
| Housing Material | CuZn, nickel-plated |
| Degree of Protection | IP67 |
| Connection | Cable, 3-wire, 2 m |
| Cable Jacket Material | PVC |

Safety-relevant Data

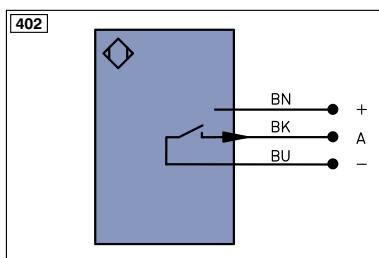
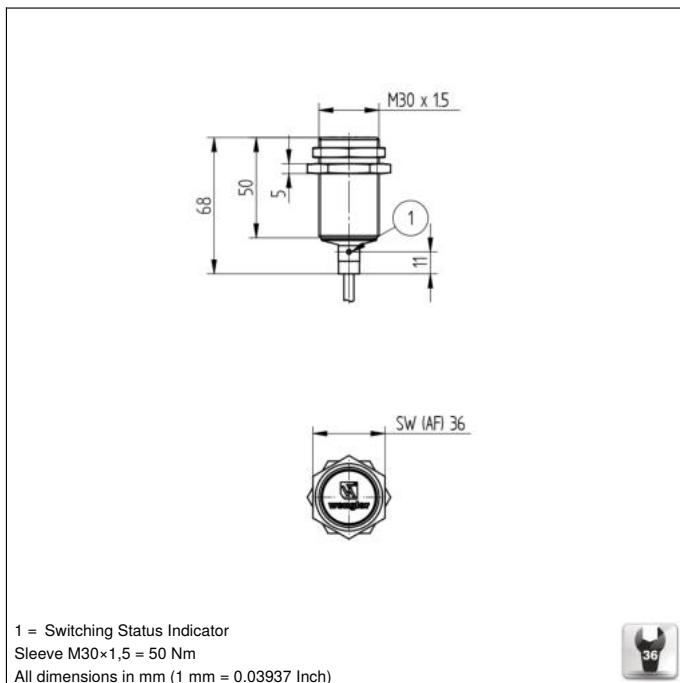
| | |
|------------------------|-----------|
| MTTFd (EN ISO 13849-1) | 3706,54 a |
|------------------------|-----------|

Function

| | |
|----------------------------------|-----------|
| Error Indicator | yes |
| NPN NO | |
| Connection Diagram No. | 402 |
| Suitable Mounting Technology No. | 130 131 |

* Temperature range with permanently installed cable, bending radius: > 40 mm

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.


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) | Ü | Test Input inverted |
| Å | Switching Output (NC) | W | Trigger Input |
| V | Contamination/Error Output (NO) | W- | Ground for the Trigger Input |
| Å | 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 + |
| | | 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 | E- | Emitter-Line |
| CL | Clock | ± | Grounding |
| E/A | Output/Input programmable | SnR | Switching Distance Reduction |
| IO-Link | | Rx+/- | Ethernet Receive Path |
| PoE | Power over Ethernet | Tx+/- | Ethernet Send Path |
| IN | Safety Input | Bus | Interfaces-Bus A(+)/B(-) |
| OSD | Safety Output | La | Emitted Light disengageable |
| Signal | Signal Output | Mag | Magnet activation |
| BL-D | Ethernet Gigabit bidirect. data line (A-D) | RES | Input confirmation |
| EN0542 | Encoder 0-pulse 0-0 (TTL) | EDM | Contactor Monitoring |
| EN0542 Encoder A/Ä (TTL) | | | |
| EN0542 Encoder B/ß (TTL) | | | |
| EN 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 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
