

Inductive Sensor

with Standard Switching Distances

IM025NM37VB

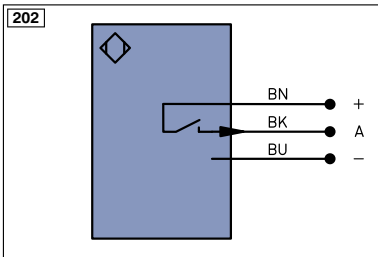
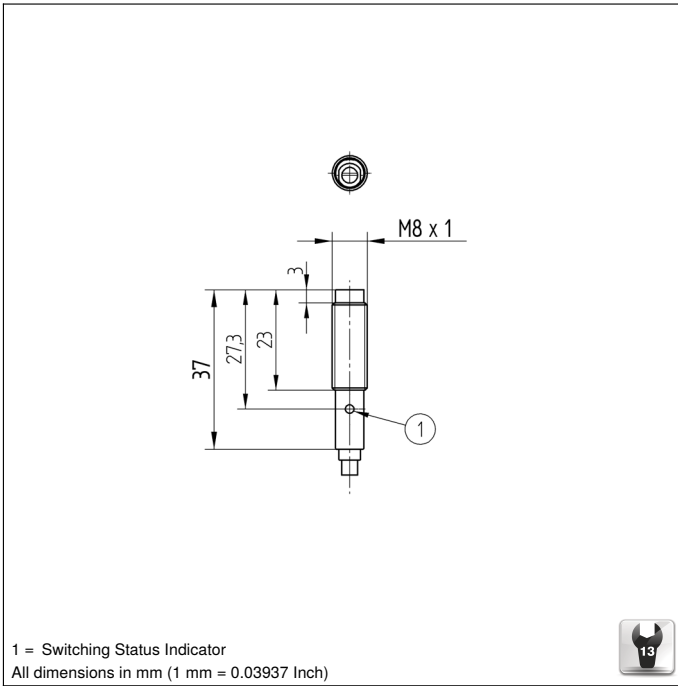
Part Number



Technical Data

| Inductive Data | |
|---|---------------------|
| Switching Distance | 2,5 mm |
| Correction Factors V2A/CuZn/Al | 0,73/0,55/0,45 |
| Mounting | non-flush |
| Mounting A/B/C/D in mm | 12/16/7,5/3 |
| Switching Hysteresis | < 15 % |
| Electrical Data | |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24 V) | < 6 mA |
| Switching Frequency | 1 kHz |
| Temperature Drift | < 10 % |
| Temperature Range | -25...80 °C |
| Switching Output Voltage Drop | < 2,5 V |
| Switching Output/Switching Current | 200 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 |
| Full Encapsulation | yes |
| Degree of Protection | IP67 |
| Connection | Prewired |
| Cable Length | 2 m |
| Stock Type | ● |
| PNP NO | ● |
| Connection Diagram No. | 202 |
| Suitable Mounting Technology No. | 200 |





| Legend | | |
|--------|---------------------------------|---|
| + | Supply Voltage + | nc not connected |
| - | Supply Voltage 0 V | U Test Input |
| ~ | Supply Voltage (AC Voltage) | Ū Test Input inverted |
| A | Switching Output (NO) | W Trigger Input |
| Ā | Switching Output (NC) | O Analog Output |
| V | Contamination/Error Output (NO) | O- Ground for the Analog Output |
| ṽ | Contamination/Error Output (NC) | BZ Block Discharge |
| E | Input (analog or digital) | AWV Valve Output |
| T | Teach Input | a Valve Control Output + |
| Z | Time Delay (activation) | b Valve Control Output 0 V |
| S | Shielding | SY Synchronization |
| RxD | Interface Receive Path | E+ Receiver-Line |
| TxD | Interface Send Path | S+ Emitter-Line |
| RDY | Ready | ≐ Grounding |
| GND | Ground | S _n R Switching Distance Reduction |
| CL | Clock | Rx+/- Ethernet Receive Path |
| E/A | Output/Input programmable | Tx+/- Ethernet Send Path |
| | IO-Link | Bus Interfaces-Bus A(+)/B(-) |
| PoE | Power over Ethernet | La Emitted Light disengageable |
| IN | Safety Input | Mag Magnet activation |
| OSSD | Safety Output | RES Input confirmation |
| Signal | Signal Output | EDM Contactor Monitoring |

| 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

