

Inductive Sensor

with Standard Switching Distances

IW120NM65VA3

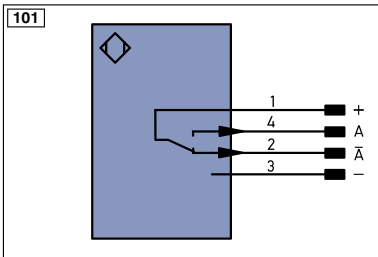
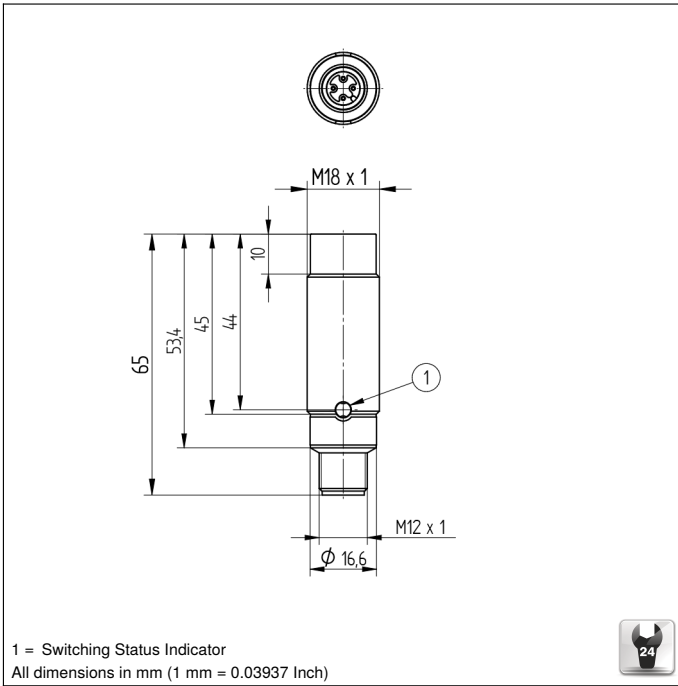
Part Number



Technical Data

| Inductive Data | |
|---|---------------------|
| Switching Distance | 12 mm |
| Correction Factors V2A/CuZn/Al | 0,73/0,50/0,48 |
| Mounting | non-flush |
| Mounting A/B/C/D in mm | 27/36/36/14 |
| Switching Hysteresis | < 15 % |
| Electrical Data | |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24 V) | < 6 mA |
| Switching Frequency | 200 Hz |
| 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 | M12 × 1; 4-pin |
| Stock Type | ● |
| PNP NO/NC antivalent | ● |
| Connection Diagram No. | 101 |
| Suitable Connection Technology No. | 2 |
| Suitable Mounting Technology No. | 150 |





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 | |
| A̅ | Switching Output (NC) | O | Analog Output | |
| V | Contamination/Error Output (NO) | O- | Ground for the Analog Output | |
| V̅ | 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 | Contacting 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

