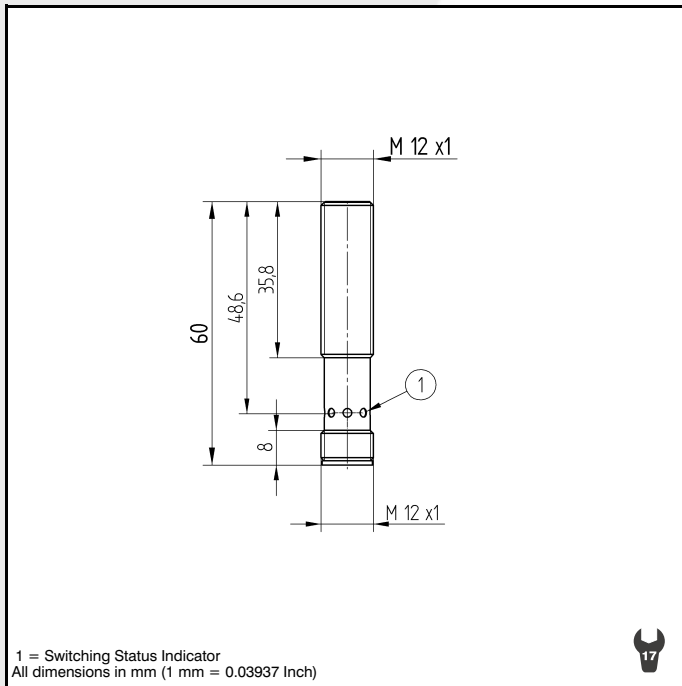


# Inductive Proximity Switch

flush Housing B M12 x 1

## IB020BM60VB3

Part Number

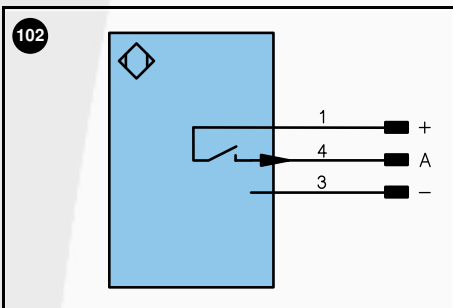


### Technical Data

| Inductive Data                             |                |
|--|----------------|
| Switching Distance                         | 2 mm           |
| Correction Factors V2A / Brass / Al        | 0.74/0.42/0.38 |
| Mounting                                   | flush          |
| Switching Hysteresis                       | < 15 %         |
| Electrical Data                            |                |
| Supply Voltage                             | 10...30 V DC   |
| Current Consumption (U <sub>b</sub> = 24V) | < 6 mA         |
| Switching Frequency                        | 700 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 Protection                | yes            |
| Overload Protection                        | yes            |
| Mechanical Data                            |                |
| Housing                                    | BrasNicPlated  |
| Full Encapsulation                         | yes            |
| Protection Mode                            | IP 67          |
| Connection                                 | M 12x1         |
| Protective Insulation, Rated Voltage       | 50 V           |



|                        |                     |
|------------------------|---------------------|
| Part Number            | <b>IB020BM60VB3</b> |
| PNP NO                 | ●                   |
| Connection Diagram No. | 102                 |
| Suitable Plug No.      | 2                   |



| Legend |                                   | Wire colors according to DIN IEC 757 |
|--------|-----------------------------------|--------------------------------------|
| +      | Power supply "+"                  | BK black                             |
| -      | Power supply "0V"                 | BN brown                             |
| A      | Power supply (AC Voltage)         | RD red                               |
| A      | Switching output (1,2,3...) / NO  | OG orange                            |
| Ā      | Switching output (1,2,3...) / NC  | YE yellow                            |
| V      | Contamination / Error output (NO) | GN green                             |
| V      | Contamination / Error output (NC) | BU blue                              |
| E      | Input (analog or digital)         | VT violet                            |
| T      | Teach input                       | GY grey                              |
| Z      | Time delay (activation)           | WH white                             |
| S      | Shielding                         | PK pink                              |
| RxD    | RS-232 receive path               | GNYE green yellow                    |
| TxD    | RS-232 send path                  |                                      |
| U      | Test input                        |                                      |
| W      | Trigger input                     |                                      |
| O      | Analog output (1,2,3...)          |                                      |
| O-     | Ground for the analog output      |                                      |
| bz     | Block discharge                   |                                      |
| Aw     | Valve output                      |                                      |
| a      | Valve control output "+"          |                                      |
| b      | Valve control output "0V"         |                                      |
| SY     | Synchronization                   |                                      |
| E+     | Receiver-Line                     |                                      |
| S+     | Emitter-Line                      |                                      |
| ⊕      | Grounding                         |                                      |

Specifications are subject to change without notice

28/02