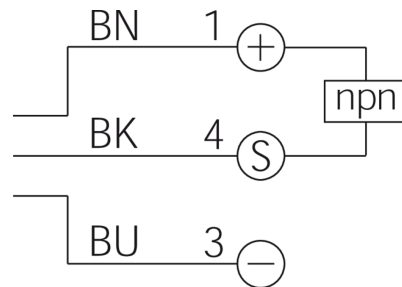
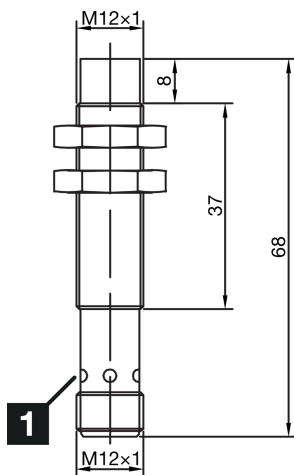




**213152**  
**INS-M12-N04NS-B3**  
**Inductive proximity sensor**

- Single switching distance
- Metal connector M12
- Short-circuit protection
- LED switching status display
- High protection type



1) LED

BK: black

BN: brown

BU: blue

**Function**



**Technical data (typ.)**

**+20°C, 24 V DC**

**Electrical features**

|                              |                |
|------------------------------|----------------|
| Service voltage              | 10 ... 30 V DC |
| Internal power consumption   | 10 mA          |
| Insulation voltage endurance | < 500 V DC     |

**Mechanical features**

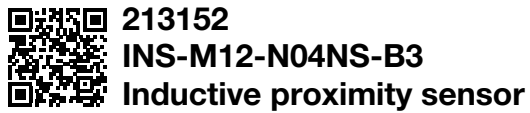
|                   |                       |
|-------------------|-----------------------|
| Installation type | non-flush             |
| Thread            | M12 x 1               |
| Housing length    | 68 mm                 |
| Housing material  | Brass (nickel-plated) |

**Certifications, approvals**

|                  |                                          |
|------------------|------------------------------------------|
| Protection class | III, operation on protective low voltage |
|------------------|------------------------------------------|

**General features**

|                     |                           |
|---------------------|---------------------------|
| Operating principle | inductive                 |
| Evaluation          | digital                   |
| Design              | Thread                    |
| Characteristics     | Single switching distance |
| Product series      | INS Standard              |



| Technical data (typ.)                                     |                                   | +20°C, 24 V DC                                                                |
|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------|
| <b>Functional scope</b>                                   |                                   |                                                                               |
| Scope of delivery                                         | Sensor, 2 x M12 nuts, 2 x washers |                                                                               |
| <b>Output, input, interface</b>                           |                                   |                                                                               |
| Switching output                                          | npn, 200 mA, NO                   |                                                                               |
| Voltage drop (max.)                                       | 1.5 V DC                          |                                                                               |
| <b>Detection range, measuring range, tolerance limits</b> |                                   |                                                                               |
| Switching distance (SN)                                   | 4 mm                              |                                                                               |
| Standardized measuring plate                              | 12 x 12 x 1 mm                    |                                                                               |
| Switching hysteresis (max.)                               | < 10 %                            |                                                                               |
| <b>Display, operation</b>                                 |                                   |                                                                               |
| LED Anzeige                                               | Yes                               |                                                                               |
| <b>Time behavior</b>                                      |                                   |                                                                               |
| Switching frequency                                       | 1000 Hz                           |                                                                               |
| <b>Ambient conditions</b>                                 |                                   |                                                                               |
| Ambient temperature during operation                      | -25 ... +70 °C                    |                                                                               |
| Protection type                                           | IP 67                             |                                                                               |
| <b>Electrical connection</b>                              |                                   |                                                                               |
| Connection                                                | Connector, M12, 3-pin, A-coded    |                                                                               |
| More information / accessories                            |                                   | <a href="https://www.di-soric.com/213152">https://www.di-soric.com/213152</a> |