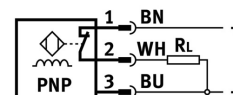
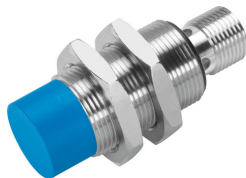


# Proximity sensor SIEN-M18NB-PO-S-L

Part number: 150431

FESTO



General operating condition

## Data sheet

| Feature                                 | Value                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|
| Conforms to standard                    | EN 60947-5-2                                                                                         |
| Symbol                                  | 00992830                                                                                             |
| Approval                                | RCM trademark<br>c UL us listed (OL)                                                                 |
| CE mark (see declaration of conformity) | To EU EMC Directive                                                                                  |
| Note on materials                       | RoHS-compliant                                                                                       |
| Rated operating distance                | 8 mm                                                                                                 |
| Assured operating distance              | 6.48 mm                                                                                              |
| Reduction factors                       | Aluminium = 0.5<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.4<br>Brass = 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                     | -25 °C ... 70 °C                                                                                     |
| Repetition accuracy                     | 0.4 mm                                                                                               |
| Switching output                        | PNP                                                                                                  |
| Switching element function              | N/C contact                                                                                          |
| Hysteresis                              | ≤0.88 mm                                                                                             |
| Max. switching frequency                | 2000 Hz                                                                                              |
| Max. output current                     | 200 mA                                                                                               |
| Voltage drop                            | ≤2 V                                                                                                 |
| Short circuit current rating            | Pulsed                                                                                               |
| Operational voltage range DC            | 10 V ... 30 V                                                                                        |
| Residual ripple                         | +/- 20 %                                                                                             |
| No-load supply current                  | ≤10 mA                                                                                               |
| Reverse polarity protection             | For all electrical connections                                                                       |
| Electrical connection                   | 3-pin<br>M12x1<br>Plugs                                                                              |
| Size                                    | M18x1                                                                                                |
| Type of mounting                        | Via lock nut                                                                                         |
| Tightening torque                       | 20 Nm                                                                                                |
| Mounting type                           | Not flush                                                                                            |
| Product weight                          | 40 g                                                                                                 |
| Material housing                        | Brass<br>PBTP<br>Nickel-plated                                                                       |
| Switching status indication             | Yellow LED                                                                                           |

| Feature                                     | Value                          |
|---------------------------------------------|--------------------------------|
| Ambient temperature with moving cable       | -5 °C ... 70 °C                |
| Degree of protection                        | IP67                           |
| Immunity to surge                           | 0.8 kV                         |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                 |
| Pollution degree                            | 3                              |
| Additional information for sensor selection | with standard sensing distance |
| Electrical output                           | PNP                            |
| Selection of sensor design                  | Standard                       |