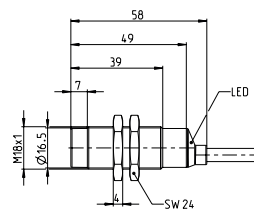
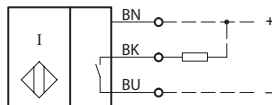


## Inductive Proximity Switch Series M18

Description **KIN-M18NS/008-KL2**

Article number **6532306002**

### Wiring Diagram




### Identifying characteristics in accordance with EN 60947-5-2

| Electrical data                           |           |  |
|---|-----------|--|
| <b>Sensor operation (delivery status)</b> |           |  |
| Rated operating distance                  | $S_n$     | 8 mm                                     |
| Standard target                           |           | 24 mm x 24 mm, t = 1 mm, material: FE360 |
| Real sensing distance                     | $S_r$     | 7,2 ... 8,8 mm                           |
| Assured operating distance                | $S_a$     | 0 ... 6,5 mm                             |
| Switching element function                |           | DC, N.O.                                 |
| Repeat accuracy                           | R         | ≤ 5 %                                    |
| Differential travel (hysteresis)          | H         | ≈ 8 %                                    |
| Rated operational voltage                 | $U_e$     | 12 - 24 V DC                             |
| Operational voltage range                 | $U_B$     | 10 - 30 V DC                             |
| Rated insulation voltage                  | $U_i$     | 75 V DC                                  |
| Rated impulse withstand voltage           | $U_{imp}$ | 500 V                                    |
| Voltage drop                              | $U_d$     | ≤ 2 V specification                      |
| Utilization category                      |           | DC 13                                    |
| Rated operational current                 | $I_e$     | 200 mA ±10 %                             |
| Minimum operating current                 | $I_m$     | 1 mA                                     |
| Off-state current                         | $I_r$     | < 0,1 mA                                 |
| No-load supply current                    | $I_o$     | < 10 mA                                  |
| Switching element                         |           | permanent overload and s.c.p.            |
| Short-circuit protection                  |           | pulsed, current-limited and thermal      |
| Frequency of operating cycles             | f         | 200 Hz                                   |
| Mounting                                  |           | non flush                                |
| False polarity protection                 |           | yes                                      |
| Time delay before availability            | $t_v$     | < 300 ms                                 |

| Mechanical Data     |  |
|---------------------|--|
| Front cap           | LCP, black   |
| Enclosure           | brass, nickel plated   |
| End cap             | PA12, transparent  |
| Temperature range   | - 20 °C ... + 70 °C (cable not fixed mounted)<br>- 25 °C ... + 70 °C (cable fixed mounted) |
| Type of protection  | IP67 / NEMA Type 1   |
| Function indication | LED, yellow  |
| Degree of pollution | 3 (Pollution of the sensing surface may decrease operating distance)                       |
| Termination type    | Cable 3 x 0,34 mm <sup>2</sup> x 2 m ±5 %, PUR - Outer jacket, black                       |
| For attachment      | 2 x hexagon nut (tightening torque ≤ 25 Nm)  |

| Product reliability (in acc. with DIN EN 61709 (SN 29500)) |             |
|--|-------------|
| MTTF (at 40 °C)  | >1150 years |

| EU Conformity                                |  |
|--|--|
| acc. to directive 2014/30/EU (EMC-Directive) |  |

| Approvals   |  |
|---|--|
|  |  |

| Notes   |  |
|---|--|
| To be used with a class 2 power supply according to UL approval.                                      |  |
| Further data and information can be found at <a href="http://www.bernstein.eu">www.bernstein.eu</a> . |  |