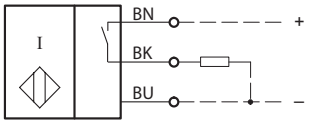
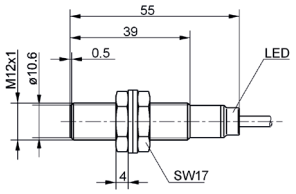
# Inductive Proximity Switch
Series M12

Description **KIB-M12PS/002-KL2D** Article number **6522903022**

**Wiring Diagram**




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

| **Electrical data** | | |
|---|---|---|
| **Sensor operation (delivery status)** | | |
| Rated operating distance | $S_n$ | 2 mm |
| Standard target | | 12 mm x 12 mm, t = 1 mm, material: FE360 |
| Real sensing distance | $S_r$ | 1,8 ... 2,2 mm |
| Assured operating distance | $S_a$ | 0 … 1,6 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 | 800 Hz |
| Mounting | | 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 |
| Ambient temperature range | - 20 °C ... + 60 °C |
| 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 0,14 $mm^2$ x 2 m ±5 %, PUR - Outer jacket, black |
| For attachment | 2 x hexagon nut (tightening torque ≤ 10 Nm) and 2 x toothed washer |

| 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) |
| | acc. to directive 2014/34/EU (ATEX Directive) |

| Approvals |
|---|
| c UL us |

| Label | |
|---|---|
| ATEX | II 2 D Ex tb IIIC T100°C Db |

| Notes |
|---|
| To be used with a class 2 power suppy according to UL approval. |