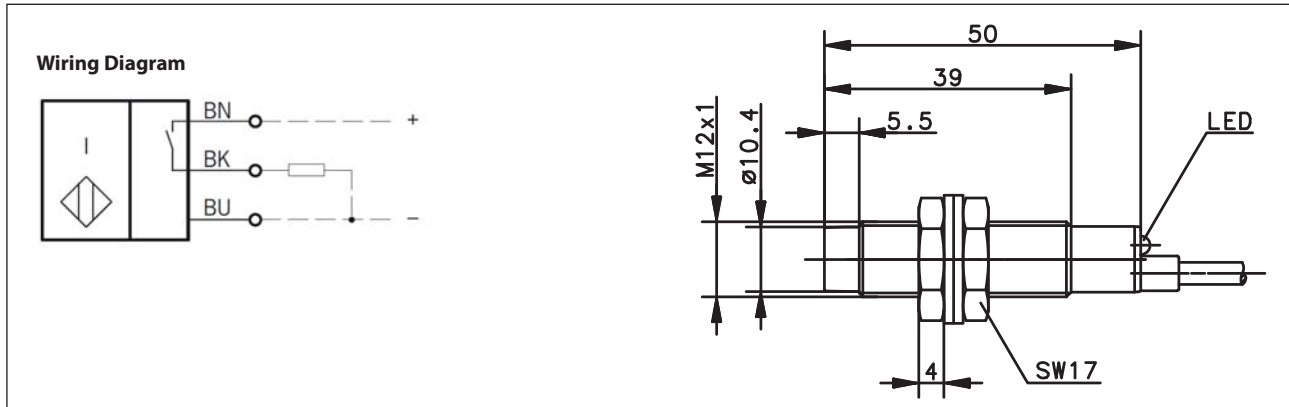


Inductive Proximity Switch Series M12

Description **KIN-M12PS/004-KL2**

Article number **6932904001**



Identifying characteristics in accordance with EN 60947-5-2

| Electrical data | | |
|----------------------------------|-----------|--|
| Rated operating distance | S_n | 4 mm |
| Standard target | | 12 mm x 12 mm, t = 1 mm, material: FE360 |
| Real sensing distance | S_r | 3,6 ... 4,4 mm |
| Assured operating distance | S_a | 0 ... 3,2 mm |
| Switching element function | | DC, N.O. |
| Repeat accuracy | R | ≤ 5 % |
| Differential travel (hysteresis) | H | ≈ 10 % |
| Operational voltage range | U_B | 10 - 36 V DC |
| Rated insulation voltage | U_i | 75 V DC |
| Rated impulse withstand voltage | U_{imp} | 500 V |
| Voltage drop | U_d | ≤ 1,5 V |
| Utilization category | | DC 12 |
| Rated operational current | I_e | 200 mA |
| Minimum operating current | I_m | 1 mA |
| Off-state current | I_r | < 0,3 mA |
| No-load supply current | I_o | < 11 mA |
| Switching element | | Permanent overload and s.c.p. |
| Short-circuit protection | | pulsed |
| Frequency of operating cycles | f | 400 Hz |
| Mounting | | non flush |
| False polarity protection | | yes |
| Time delay before availability | t_v | < 50 ms |

| Electromagnetic compatibility (EMC) | |
|--|---------------|
| Electromagnetic field test | IEC 61000-4-3 |
| Electrostatic discharge test | IEC 61000-4-2 |
| Electrical fast transient immunity test | IEC 61000-4-4 |
| Radiated disturbance field strength | EN 55011 |

| Mechanical Data | |
|-------------------------|--|
| Front cap | PA 6.6, black |
| Enclosure | Brass, nickel plated |
| Endcap | PA 6.6, black |
| Ambient air temperature | -25 °C ... +70 °C |
| Type of protection | IP67 |
| Degree of pollution | 3 (pollution of the active region, there can may be a deterioration of the operating distance) |
| Termination type | Cable 3 x 0,14 mm ² x 2 m, PVC - Outer jacket, black; |
| For attachment | 2 x hexagon nut and 2 x toothed washer |

| Product reliability (in acc. with DIN EN 61709 (SN 29500)) | |
|---|-------------|
| MTTF (at 40 °C) | > 900 years |

| EU Conformity | |
|----------------------|-----------------------------------|
| | acc. to directive 2004 / 108 / EC |