

Technical Data

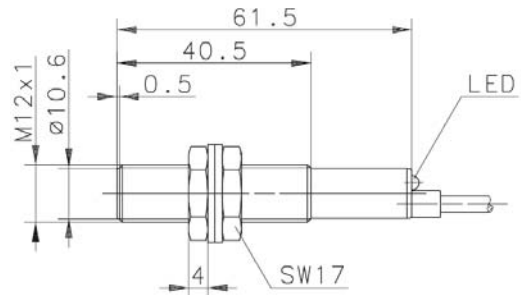
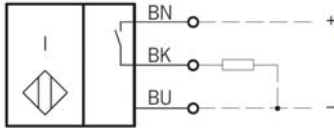
Inductive Proximity Switch

Series M12

Description **KIB-M12PS/002-KL6**

Article number **6502903006**

Wiring Diagram



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
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	≈ 10 %
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	≤ 1,9 V
Utilization category		DC 12
Rated operational current	I_e	200 mA
Minimum operating current	I_m	1 mA
Off-state current	I_r	< 0,1 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	800 Hz
Mounting		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 6 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 nominal load, 40 °C)	> 900 years
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EU Conformity

acc. to directive 2004 / 108 / EC

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