

Technical Data

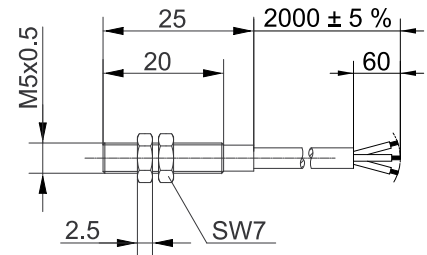
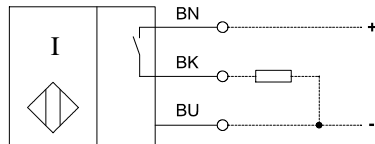
Inductive Proximity Switch

Series M05

Description **KIB-M05PS/001-KL2PU**

Article number **6502999003**

Wiring Diagram



Identifying characteristics in accordance with EN 60947-5-2

Electrical data

Rated operating distance	S_n	1 mm
Standard target		5 x 5 mm, t = 1 mm, material: FE360
Effective operating distance	S_r	0,9 ... 1,1mm
Assured operating distance	S_a	0 ... 0,81mm
Switching element function		DC, N.O.
Repeat accuracy	R	≤ 5 %
Differential travel (hysteresis)	H	≈ 10 %
Rated operational voltage	U_e	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	< 0,6 V DC (add. 0,06V per m cable and 200mA Load at 20°C)
Utilization category		DC-13
Rated operational current	I_e	≤ 200 mA
Minimum operational current	I_m	1 mA
Off-state current	I_r	≤ 0,1 mA
No-load supply current	I_o	< 13 mA
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	3000 Hz
Rated supply frequency		DC
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 (Burst)	IEC 61000-4-4
Radiated disturbance field strength	EN 55011

Mechanical Data

Enclosure	Brass, nickle plated
Front cap	LCP, black
Ambient air temperature	-25°C ... +70°C
Type of protection	IP67
Pollution degree	3 (Pollution of the active zone can cause impairments of the operating distances.)
Indication	LED, yellow
Termination type	Cable 3 x 0,14 mm ² , PUR - Outer jacket, black
For attachment	2 x hexagon nut

Product reliability (in acc. with DIN EN 61709 (SN 29500))

MTTF (at nominal load, 40 °C) > 1000 years

EU Conformity

acc. to directive 2004/108/EC

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