

Technical Data

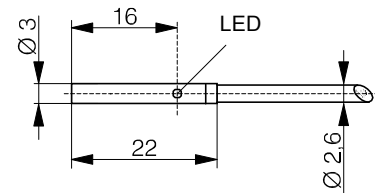
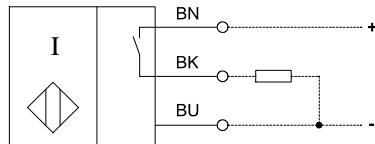
Inductive Proximity Switch

Series D03

Description **KIB-D03PS/001-KL2PU**

Article number **6502999040**

Wiring Diagram



Identifying characteristics in accordance with EN 60947-5-2

Electrical data

Rated operating distance	S_n	1 mm
Standard target		3 x 3 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	0,02 mm ($U_B = 20 \dots 30$ V DC, $T_A = 23$ °C \pm 5 °C)
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	75V DC
Rated impulse withstand voltage	U_{imp}	500V
Voltage drop	U_d	2 V DC
Rated operational current	I_e	100 mA
Minimum operational current	I_m	1 mA
Off-state current	I_r	$\leq 0,1$ mA
No-load supply current	I_o	< 10 mA
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
Frequency of operating cycles	f	3000 Hz
Mounting		flush
False polarity protection		yes
Time delay before availability	t_v	10 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	Stainless steel (Niro 1.4305)
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 0,055 mm ² , PUR - Outer jacket, grey

EU Conformity



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