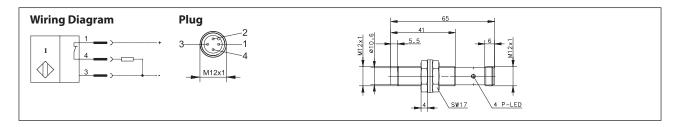


Inductive Proximity Switch

Series M12

Description KIN-M12PÖ/004-KLS12I

Article number 6532744002



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Sensor operation (delivery status)		
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.C.
Repeat accuracy	R	≤ 5 %
Differential travel (hysteresis)	Н	≈8%
Rated operational voltage	U_e	12 - 24 V DC
Operational voltage range	$U_{\scriptscriptstyle B}$	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	l _e	200 mA ±10 %
Minimum operating current	l _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	1000 Hz
Mounting		non flush
False polarity protection		yes
Time delay before availability	t_v	< 300 ms
IO-Link operation		♦ IO- Link
Rated operating voltage range	$U_{\scriptscriptstyle B}$	18 – 30 V DC (typ. 24 V DC)
Output		IO-Link
Switching element function		N.O. / N.C. parameterizable
Repeat accuracy	R	\leq 5 % from the end value, U_B and temperature at a constant level
No-load supply current	I ₀	< 15 mA
Serial output		Short-circuit proof
False polarity protection		yes

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Technical Data



IO-Link specification	
IO-Link Spec V 1.1	compliant (yellow LED)
Speed	COM 2 38,4 kBaud
Process data Device —► Master	8 bit
cycle time	10 ms

Mechanical Data	
Front cap	LCP, black
Enclosure	brass, nickel plated
Ambient air temperature	-25 °C +70 °C
Type of protection	IP67 / NEMA Type 1 (only in fully locked position with it's plugs)
Function indication	LED, yellow
Degree of pollution	3 (Pollution of the sensing surface may decrease operating distance)
Termination type	plug socket M12x1
For attachment	2 x hexagon nut (tightening torque \leq 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)

Approvals	
c UL us	

Notes

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

Further data and information can be found at www.bernstein.eu.