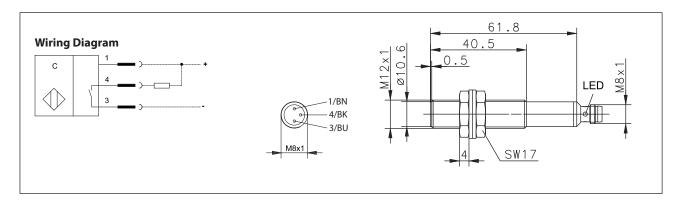


Capacitive Proximity Switch

Series M12

Description KCB-M12NS/002-KLSM8

Article number 6507303004



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S _n	2 mm
Mounting		flush
Standard target		12 x 12 x 1 mm; material: steel; connected to earth
Effective operating distance	S _r	1,8-2,2 mm
Assured operating distance	Sa	0 ≤ Sa ≤ 0,8·Sr
Switching element function		N.O.
Repeat accuracy	R	≤ 0,1·Sr
Differential travel (hysteresis)	Н	≤ 0,2·Sr
Frequency of operating cycles	f	≈ 25 Hz
Rate doperational voltage	$U_{\rm e}$	12 V - 24 V DC
Operational voltage range	U_{B}	10 V - 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 DC
Utilization category		DC-13
Rated operational current	l _e	200 mA DC
Minimum operational current	$I_{\rm m}$	≥ 1 mA DC
Off–state current	l _r	≤ 0,5 mA DC
No-load supply current	l _o	≤ 15 mA DC
Switching element		permanent overload and s.c.p.
Short-circuit protection		pulsed
False polarity protection		with permutation of +, -, output no damage occurs
Time delay before availability	t_v	≤ 50 ms

Technical Data



Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	3 V/m, 801000 MHz
Electrostatic discharge test	IEC 61000-4-2	4 kV CD / 8 kV AD
Electrical fast transient immunity test (Burst)	IEC 61000-4-4	1kV coupling clamp
Impulse voltage withstand ability (Surge)	IEC 61000-4-5	500 V, 1,2/50 μs @ Ri = 42 Ω
Radiated disturbance field strength	EN 55011	≤ 40 dB (μV/m)

Mechanical Data	
Enclosure	Brass, nickel plated
Front cap	PTFE
Ambient air temperature	-25 °C +70 °C
Type of protection	IP65 (with plug-in-connector) IP67 (with screwed plug-in-connector)
Pollution degree	3 (Pollution of the optic can cause impairments of the operating distances.)
Indication	Output ON = LED yellow
Termination type	M8 x 1, brass, nickel plated
For attachment	Hexagon nut, brass, nickel plated (with toothed washers A2)

EU Conformity	
	acc. to directive 2014/30/EU (EMC-Directive)