

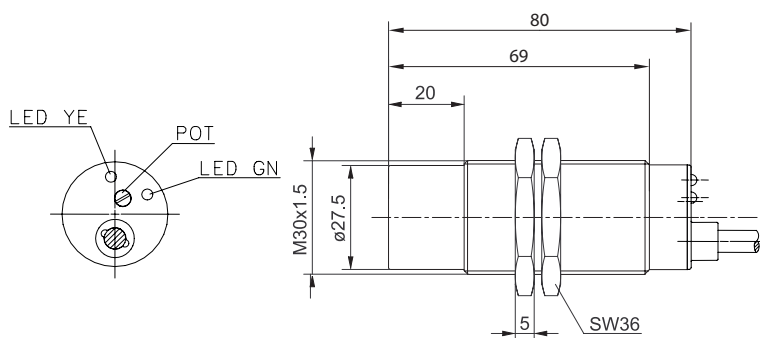
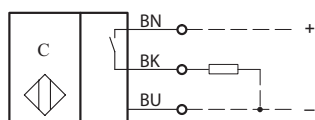
Capacitive Proximity Switch

Series M30

Description **KCN-M30PS/020-KLP2**

Article number **6507908001**

Wiring Diagram



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S_n	20 mm
Mounting		non flush
Standard target		60 mm x 60 mm x 1 mm; material: steel; connected to earth
Effective operating distance	S_r	5-20 mm; adjustable
Assured operating distance	S_a	$0 \leq S_a \leq 0,8 \times S_r$
Switching element function		DC N.O.
Repeat accuracy	R	$\leq 0,1 \times S_r$
Differential travel (hysteresis)	H	$\leq 0,2 \times S_r$
Frequency of operating cycles	f	≤ 25 Hz
Rate doperational voltage	U_e	12 V - 48 V DC
Operational voltage range	U_B	10 V - 60 V DC
Rated insulation voltage	U_i	75 V DC
Rated impulse withstand voltage	U_{imp}	500 V
Voltage drop	U_d	≤ 3 V DC
Utilization category		DC 13
Rated operational current	I_e	400 mA
Minimum operating current	I_m	≥ 1 mA
Off-state current	I_r	$\leq 0,5$ mA
No-load supply current	I_o	≤ 12 mA DC
Switching element		Permanent overload and s.c.p.
Short-circuit protection		pulsed
False polarity protection		yes, with permutation of +, -, output no damage occurs
Time delay before availability	t_v	≤ 130 ms

Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	3 V/m, 80...1000 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 μ s @ Ri = 42 Ω
Radiated disturbance field strength	EN 55011	≤ 40 dB (μ V/M)

Mechanical Data	
Enclosure	Stainless steel (1.4305)
Cap	PTFE, white, Ra $\leq 1,1$ μ m (active zone)
End cap	PA6.6, black
Ambient air temperature	-25 °C ... +70 °C
Type of protection	IP67
Pollution degree	3 (Pollution of the optic can cause impairments of the operating distances.)
Indication	Supply voltage: LED green Output ON: LED yellow
Termination type	Cable 3 x 0,5 mm ² x 2 m ± 5 %, PVC-outer jacket black;
For attachment	2 x Hexagon nut (Stainless steel 1.4305)

EU Conformity	
	acc. to directive 2014/30/EU