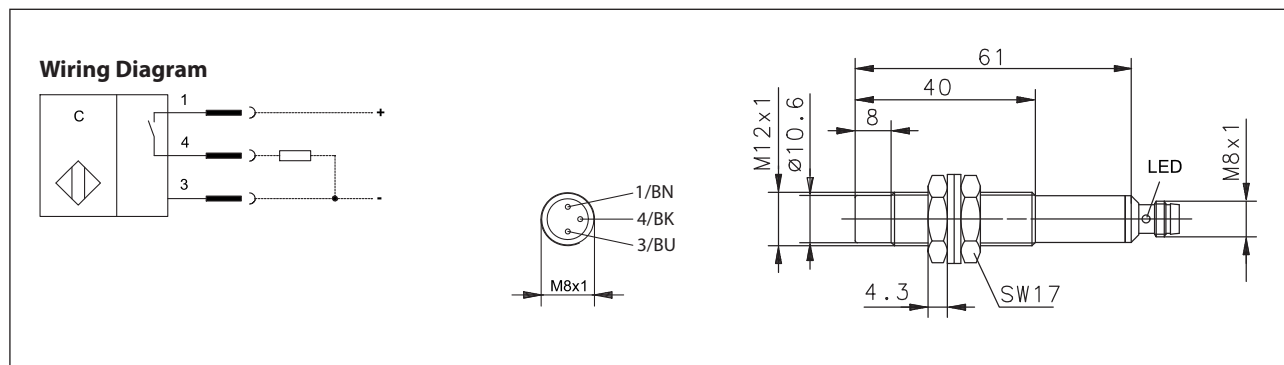


## Capacitive Proximity Switch Series M12

Description **KCN-T12PS/004-KLSM8**

Article number **6507919004**



### Identifying characteristics in accordance with EN 60947-5-2

Electrical data	
Rated operating distance	$S_n$ 4 mm
Mounting	non flush
Standard target	12 x 12 x 1 mm; material: steel; connected to earth
Effective operating distance	$S_r$ 3,6-4,4 mm; $S_r$ adjustable with potentiometer (POT); turn right $\triangleq$ high sensitivity, turn left $\triangleq$ low sensitivity
Assured operating distance	$S_a$ $0 \leq S_a \leq 0,8 \cdot S_r$
Switching element function	N.O.
Repeat accuracy	R $\leq 0,1 \cdot S_r$
Differential travel (hysteresis)	H $\leq 0,2 \cdot S_r$
Frequency of operating cycles	f $\approx 25$ Hz
Rate doperational voltage	$U_e$ 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	$U_d$ $\leq 1,5$ V DC
Utilization category	DC-13
Rated operational current	$I_e$ 200 mA DC
Minimum operational current	$I_m$ $\geq 1$ mA DC
Off-state current	$I_r$ $\leq 0,5$ mA DC
No-load supply current	$I_o$ $\leq 15$ mA DC
Switching element	permanent overload and s.c.p.
Short-circuit protection	pulsed
Rated conditional short-circuit current	100 A
Rated supply frequency	DC
False polarity protection	with permutation of +, -, output no damage occurs
Time delay before availability	$t_v$ $\leq 150$ ms

<b>Electromagnetic compatibility (EMC)</b>		
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 $\mu$ s @ Ri = 42 $\Omega$
Radiated disturbance field strength	EN 55011	$\leq$ 40 dB ( $\mu$ V/m)

<b>Mechanical Data</b>	
Enclosure	PBT, black
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, PA6.6, black (with washers PEBUNAN)

<b>EU Conformity</b>	
acc. to directive 2014/30/EU	