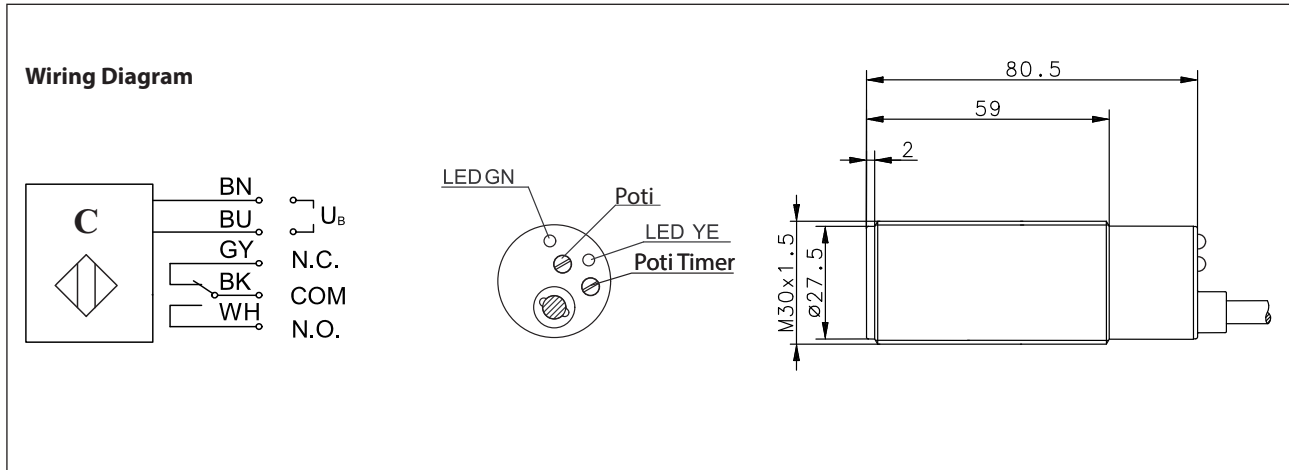


Capacitive Proximity Switch Series M30

Description **KCN-T30RU/020-LP2**

Article number **6509023001**



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	6-20 mm; S_r adjustable with potentiometer (Poti); turn right $\hat{=}$ high sensitivity, turn left $\hat{=}$ low sensitivity
Assured operating distance	S_a	$0 \leq S_a \leq 0,8 \cdot S_r$
Switching element function		N.O., Relay, change over contact with induction protection
Repeat accuracy	R	$\leq 0,1 \cdot S_r$
Differential travel (hysteresis)	H	$\leq 0,2 \cdot S_r$
Rate doperational voltage	U_e	230 V AC
Operational voltage range	U_B	20 V ... 250 V AC / DC
Rated insulation voltage	U_i	250 V AC
Rated impulse withstand voltage	U_{imp}	1500 V
Protection class		II, totally insulated
Rated current	I	$\leq 1 \text{ A @ } 250 \text{ V AC, max. } 60 \text{ W, } \cos \varphi = 1$
No-load supply current	I_o	$\leq 2 \text{ mA}$
Switching element		Relay
Rated supply frequency		50 Hz / 60 Hz
Relay pickup delay	t	$\approx 1 - 600 \text{ s} \Rightarrow$ adjustable with potentiometer (Poti Timer); turn right = long delay, turn left = short delay
Time delay before availability	t_v	0,3 s

Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	10 V/m
Electrostatic discharge test	IEC 61000-4-2	8 kV
Electrical fast transient immunity test (Burst)	IEC 61000-4-4	2 kV coupling clamp
Impulse voltage withstand ability (Surge)	IEC 61000-4-5	2 kV, 1,2/50 μ s @ Ri = 2 Ω
Radiated disturbance field strength	EN 55011	\leq 40 dB (μ V/m)

Mechanical Data	
Enclosure	PBT, black
End cap	PA6, black
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	Power ON = LED green Output ON = LED yellow (Flashes while set delay time is elapsing)
Termination type	Cable 5 x 0,5 mm ² x 2 m, PVC-outer jacket black

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