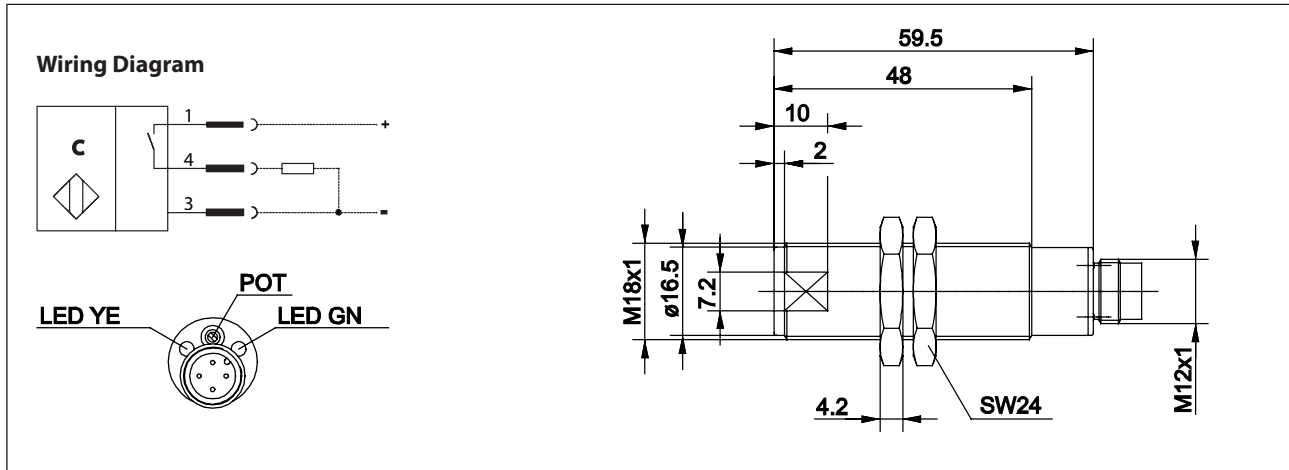


Capacitive Proximity Switch Series T18

Description **KCN-T18PS/012-KLPS12V**

Article number **6607921353**



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Rated operating distance	S_n	12 mm
Mounting		non flush
Standard target		50 mm x 50 mm, t=1 mm; material: steel; connected to earth
Effective operating distance	S_r	11,5 ... 12,5 mm (potentiometer (POT) sealed)
Assured operating distance	S_a	$0 \leq S_a \leq 0,8 \times S_r$
Switching element function		Make function, pnp-output
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
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	≤ 2 V
Utilization category		DC 12
Rated operational current	I_e	200 mA DC
Minimum operational current	I_m	1 mA DC
Off-state current	I_f	$\leq 0,5$ mA DC
No-load supply current	I_o	≤ 20 mA
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

Electromagnetic compatibility (EMC)	
Electromagnetic field test	IEC 61000-4-3
Electrostatic discharge test	IEC 61000-4-2
Electrical fast transient immunity test (Burst)	IEC 61000-4-4
Impulse voltage withstand ability (Surge)	IEC 61000-4-5
Radiated disturbance field strength	EN 55011

Mechanical Data	
Enclosure	PBT, black
End cap	PA6.6, black
Ambient air temperature	-25 °C ... +70 °C
Type of protection	IP65 (only in fully locked position with it's plugs)
Pollution degree	3 (Pollution of the optic can cause impairments of the operating distances.)
Indication	Power ON = LED green Output ON = LED yellow
Termination type	plug socket
For attachment	2 x Hexagon nut (PA6.6, black)

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

Notes	
When setting the switching distance the measuring plate, the measuring device and the negative terminal of the voltage source are grounded. The distance between chuck and front side of the switch is 25 mm.	