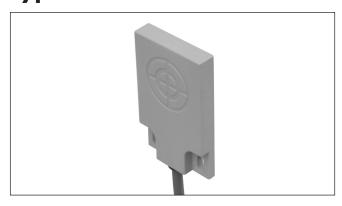
Level Sensors Capacitive Level Detector Type CD50 CNF ..





- Basic capacitive water level sensor
- For water storage tanks in mini-pools and whirlpools
- Detection of excess water in the whirlpool tub
- Safety device to control the operation of the pump
- Mounting by screws or glued on the outside of any non-metallic tank
- Supply 10-30 VDC or 5 VDC

Product Description

Capacitive level detectors. 3-wire DC sensors with open collector NPN or PNP transistor output. The sensors are available in a 5 VDC version and a 10-30 VDC version.

The sensing distance is fixed and works through a non-metallic wall of up to 20 mm of thickness.

Ordering Key	CD50 CNF 06 NO
Capacitive proximity switch	\neg
Housing style —	
Housing size —	
Housing material —	
Housing length —	
Detection principle —	
Sensing distance ———	
Output type —	
Output configuration ——	

Type Selection

Supply	Housing size (mm)	Rated operating distance (S _n)	Mounting	Ordering no. Transistor NPN/ cable, make switching	Ordering no. Transistor NPN/ cable, break switching	Ordering no. Transistor PNP/ cable, make switching
40.001/00		10				
10-30 VDC	50 x 30 x 7	10 mm	M3 screws or glued	CD50CNF10NO	CD50CNF10NC	CD50CNF10PO
10-30 VDC	50 x 30 x 7	7 mm	M3 screws or glued		CD50CNF07NC	CD50CNF07PO
10-30 VDC	50 x 30 x 7	6 mm	M3 screws or glued	CD50CNF06NO		
5 VDC	50 x 30 x 7	5 mm	M3 screws or glued	CD50CNF05NO		

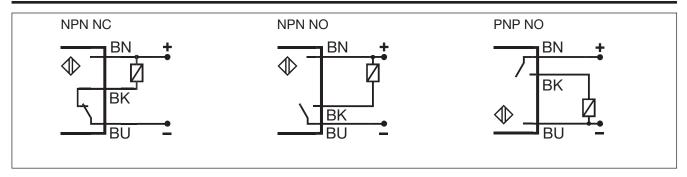
Specifications

Rated operation dist. (Sn) Fixed CD50CNF10XX Fixed CD50CNF07XX Fixed CD50CNF06NO Fixed CD50CNF05NO	10 mm (ref. st. 37 grounded) 7 mm (ref. st. 37 grounded) 6 mm (ref. st. 37 grounded) 5 mm (ref. st. 37 grounded)	Output CD50CNFXXNO CD50CNFXXNC	Open collector, NPN, make switching Open collector, NPN, breake switching
Rated operational volt. (U _e) Fixed CD50CNF10-07-06XX	10-30 VDC ± 10%	CD50CNFXXPO	Open collector, PNP, make switching
Fixed CD50CNF05NO	(ripple included) 5 VDC ± 10% (ripple included)	Environment Degree of protection Operating temperature	IP 67 0 to +60°C (32 to +140°F) -30 to +75°C (-22 to +167°F)
Ripple	≤ 10%	Storage temperature	,
Rated operational current (l _e)		Housing material	Noryl, grey
Continuous	≤ 50 mA	Connection Cable	2.0 m, 3 x 0.25 mm ²
No-load supply current (I _o)	≤ 10 mA	Cable	grey PVC, oil proof
Leakage current	< 100 μ A	Weight	120 g
Voltage drop (U _d) @ 50 mA	1.5 V	CE-marking	Yes
Frequency of operating cycles (f) CD50CNF10XX CD50CNF07XX CD50CNF06XX CD50CNF05XX	10 Hz 10 Hz 10 Hz 10 Hz 10 Hz	IEC61000-4-2 IEC61000-3-2/ IEC61000-3-3 IEC61000-4-4 class B IEC61000-4-6	±4KV cont, ±8KV air 3V/m ±2KV 3Vrms*

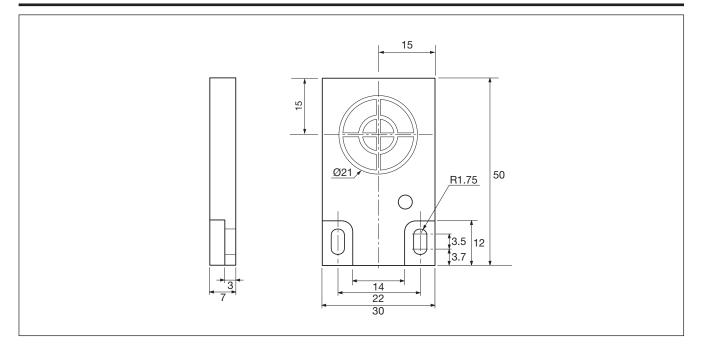
*Not observed around the frequency: CD50CNF05xx: 400KHz - 760KHz, CD50CNF06xx: 600KHz - 1050KHz, CD50CNF07xx: 550KHz - 1100KHz, CD50CNF10xx: 2150KHz - 5050KHz.



Wiring Diagram



Dimensions



Delivery Contents

- Capacitive switchPackaging: Plastic bag