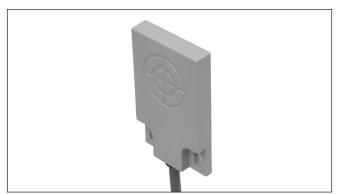
# Level Sensors Capacitive Level Detector Type CD50 CNF ..



**CD50 CNF 06 NO** 



#### 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 nonmetallic wall.

#### **Ordering Key**

Capacitive proximity switch Housing style Housing size Housing material Detection principle Sensing distance Output type Output configuration

#### **Type Selection**

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

### **Specifications**

Rated operation dist. (S <sub>n</sub> )			
Fixed CD50CNF10XX	10 mm (ref. st. 37 grounded)		
Fixed CD50CNF07XX	7 mm (ref. st. 37 grounded)		
Fixed CD50CNF06NO	6 mm (ref. st. 37 grounded)		
Fixed CD50CNF05NO	5 mm (ref. st. 37 grounded)		
	o min (ioi: or groundod)		
Rated operational volt. $(U_e)$			
Fixed CD50CNF10-07-06XX	10-30 VDC ± 10%		
	(ripple included)		
Fixed CD50CNF05NO	5 VDC ± 10%		
	(ripple included)		
Dinnlo	< 10%		
Ripple	S 10%		
Rated operational current (I <sub>e</sub> )			
Continuous	≤ 50 mA		
No-load supply current $(I_o)$	≤ 10 mA		
Leakage current	< 100 µ A		
Voltage drop (U <sub>d</sub> ) @ 50 mA	1.5 V		
Frequency of operating			
cycles (f)			
CD50CNF10XX	10 Hz		
CD50CNF07XX	10 Hz		
CD50CNF06XX	10 Hz		
CD50CNF05XX	10 Hz		
00000111 00707			

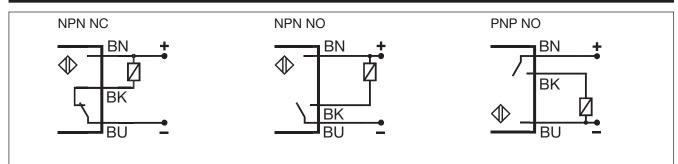
Output CD50CNFXXNO	Open collector, NPN, make switching		
CD50CNFXXNC	Open collector, NPN, breake switching		
CD50CNFXXPO	Open collector, PNP, make switching		
Environment			
Degree of protection	IP 67		
Operating temperature	0 to +60°C (32 to +140°F)		
Storage temperature	-30 to +75°C (-22 to +167°F)		
Housing material	Noryl, grey		
Connection			
Cable	2.0 m, 3 x 0.25 mm <sup>2</sup> grey PVC, oil proof		
Weight	120 g		
CE-marking	Yes		
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.

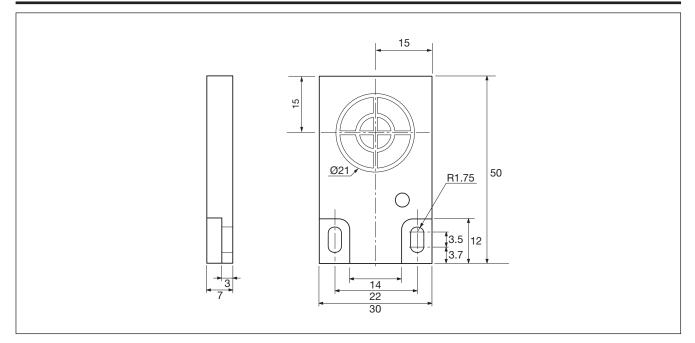
Specifications are subject to change without notice (01.12.2021).



# Wiring Diagram



## **Dimensions**



## **Delivery Contents**

- Capacitive switch
  Packaging: Plastic bag