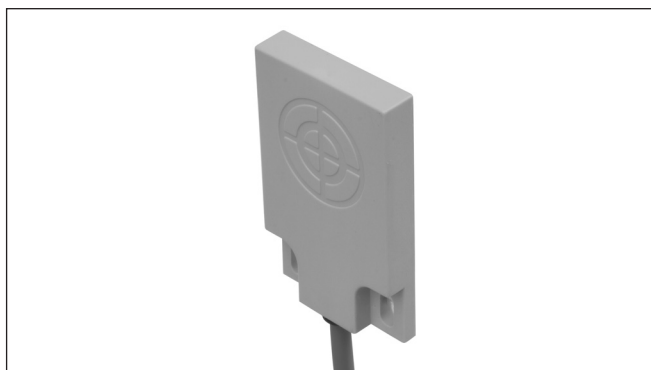


Level Sensors

Capacitive Level Detector

Type CD50 CNF ..

CARLO GAVAZZI



- 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.

Ordering Key

CD50 CNF 06 NO

Capacitive proximity switch	
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
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		

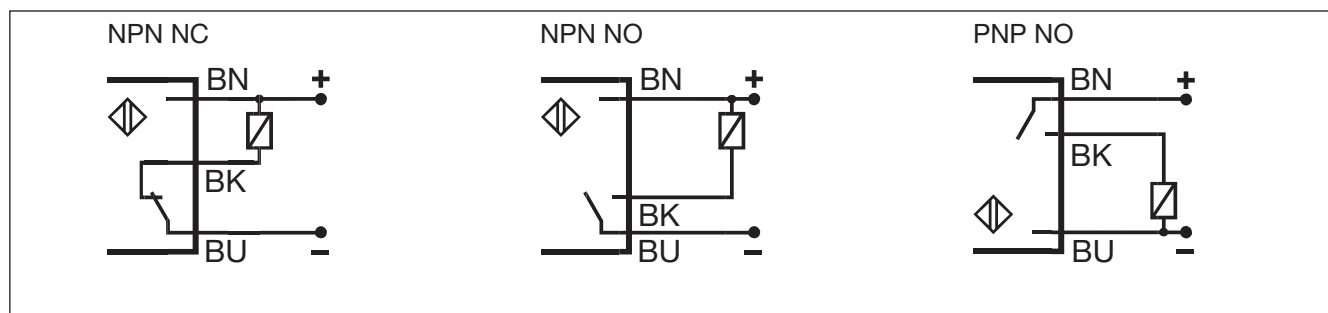
Specifications

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

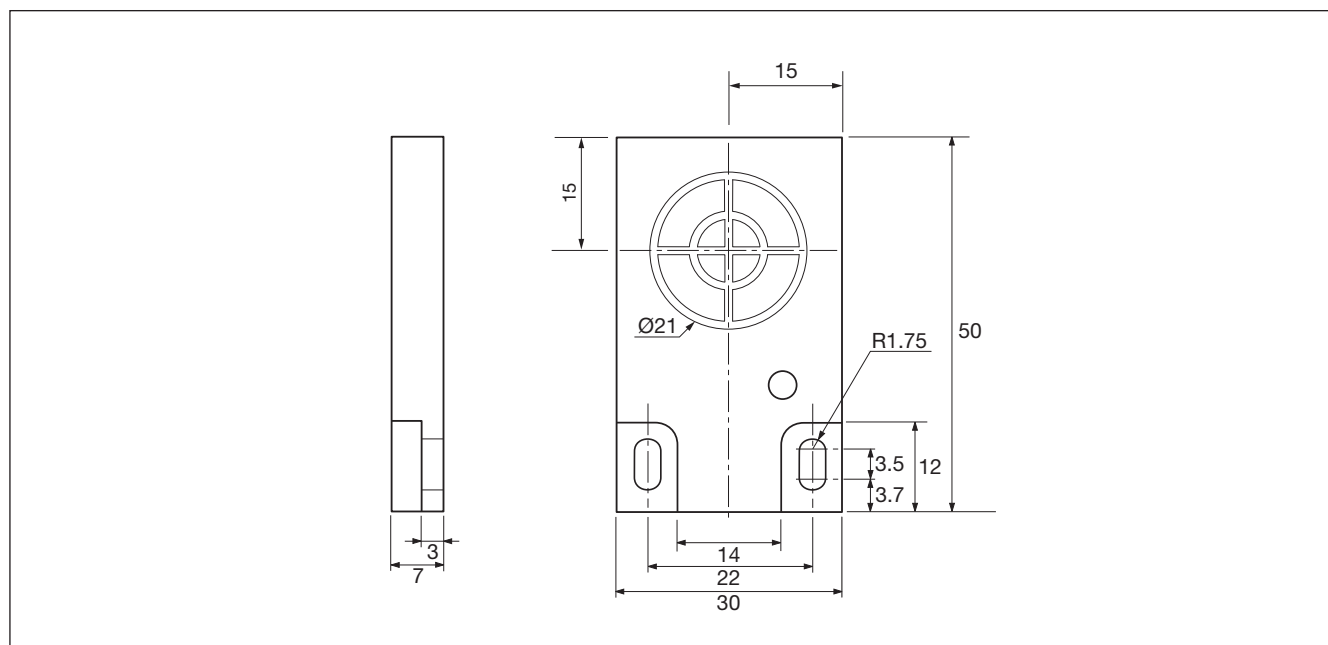
*Not observed around the frequency: CD50CNF05xx: 400KHz - 760KHz, CD50CNF06xx: 600KHz - 1050KHz, CD50CNF07xx: 550KHz - 1100KHz, CD50CNF10xx: 2150KHz - 5050KHz.

Specifications are subject to change without notice (01.12.2021).

Wiring Diagram



Dimensions



Delivery Contents

- Capacitive switch
- **Packaging:** Plastic bag