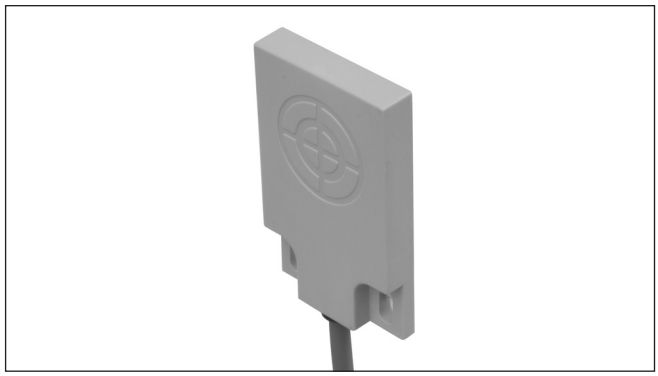
Level Sensors
Capacitive Level Detector
Type CD50 CNF ..

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)	
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)
Rated operational volt. (U_e)	
Fixed CD50CNF10-07-06XX	10-30 VDC ± 10% (ripple included)
Fixed CD50CNF05NO	5 VDC ± 10% (ripple included)
Ripple	≤ 10%
Rated operational current (I_e)	
Continuous	≤ 50 mA
No-load supply current (I_o)	≤ 10 mA
Leakage current	< 100 µ A
Voltage drop (U_d) @ 50 mA	1.5 V
Frequency of operating cycles (f)	
CD50CNF10XX	10 Hz
CD50CNF07XX	10 Hz
CD50CNF06XX	10 Hz
CD50CNF05XX	10 Hz

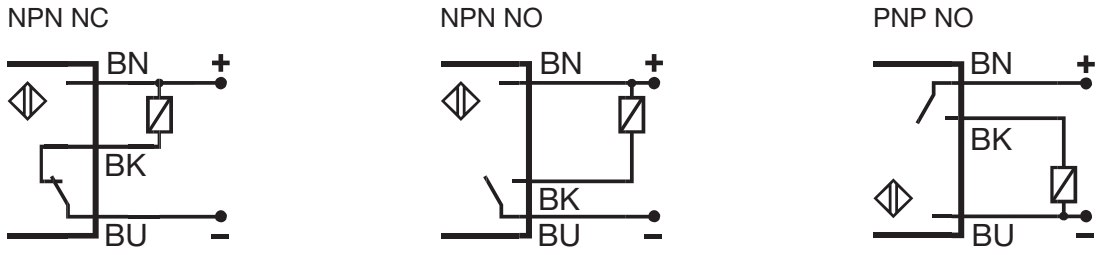
Output	
CD50CNFXXNO	Open collector, NPN, make switching
CD50CNFXXNC	Open collector, NPN, breake switching
CD50CNFXXPO	Open collector, PNP, make switching
Environment	
Degree of protection	IP 67
Operating temperature	0 to +60°C (32 to +140°F)
Storage temperature	-30 to +75°C (-22 to +167°F)
Housing material	Noryl, grey
Connection	
Cable	2.0 m, 3 x 0.25 mm^2 grey PVC, oil proof
Weight	120 g
CE-marking	Yes
IEC61000-4-2	±4KV cont, ±8KV air
IEC61000-3-2/ IEC61000-3-3	3V/m
IEC61000-4-4 class B	±2KV
IEC61000-4-6	3Vrms*

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

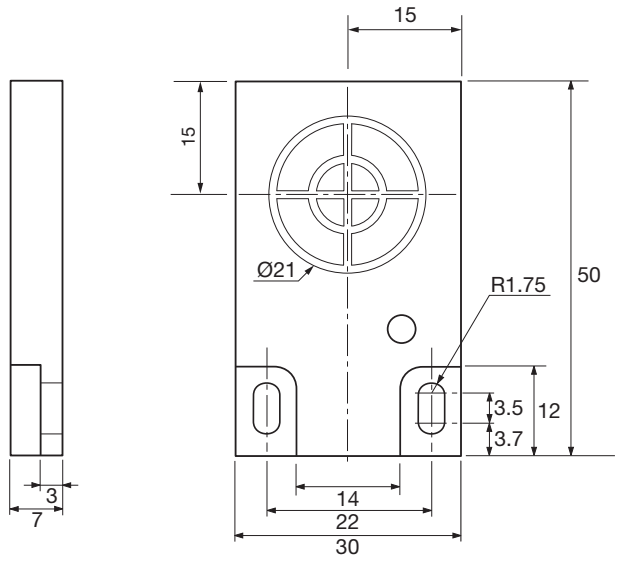
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Wiring Diagram



Dimensions



Delivery Contents

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

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