

Level Sensors

Capacitive Level Detector

Type CD50 DC

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 detector. 3-wire DC sensor with open collector NPN transistor output. The sensor is 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
Housing style
Housing size
Housing material
Housing length
Detection principle
Sensing distance
Output type
Output configuration

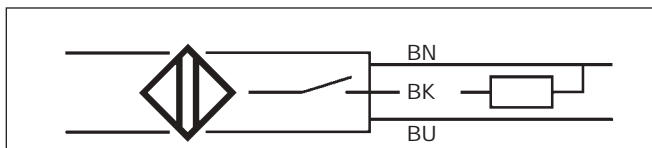
Type Selection

Supply	Housing size (mm)	Mounting	Ordering no. Transistor NPN/cable, make switching
10-30 VDC	50 x 30 x 7	M3 screws or glued	CD50CNF06NO
5 VDC	50 x 30 x 7	M3 screws or glued	CD50CNF05NO

Specifications

Rated operation dist. (S_n) Fixed CD50CNF06NO Fixed CD50CNF05NO	6 mm (ref. st. 37 grounded) 5 mm (ref. st. 37 grounded)	Frequency of operating cycles (f)	10 Hz
Rated operational volt. (U_o) Fixed CD50CNF06NO Fixed CD50CNF05NO	10-30 VDC \pm 10% (ripple included) 5 VDC \pm 10% (ripple included)	Output	Open collector, NPN, make switching
Ripple	\leq 10%	Environment Degree of protection Operating temperature Storage temperature	IP 67 0 to +60°C (32 to +140°F) -30 to +75°C (-22 to +167°F)
Rated operational current (I_o) Continuous	\leq 50 mA	Housing material	Noryl, grey
No-load supply current (I_o)	\leq 10 mA	Connection Cable	2.0 m, 3 x 0.25 mm ² grey PVC, oil proof
Leakage current	$<$ 100 μ A	Weight	120 g
Voltage drop (U_d) @ 50 mA	$<$ 1.5 V	CE-marking	Yes

Wiring Diagram



Delivery Contents

- Capacitive switch CD50CNF06NO or CD50CNF05NO
- Packaging: Plastic bag



Dimensions

