

Proximity Sensors Capacitive Level Detector, Flat Pack Polycarbonate Housing Type VC 5510

CARLO GAVAZZI



- Adjustable sensing distance 2-10 mm
- Rated operational voltage: 5 to 30 VDC
- Output: DC 100 mA, NPN or PNP
- Output: ON/OFF delay or no delay
- Make or break switching function
- LED indication when activated
- 1.5 m PVC cable
- IP65

Product Description

Capacitive level detector in flat pack housing, size 35 x 55 x 15 mm. Easy mounting with two M4 screws. Typical applications are in whirlpools (jacuzzis) for switching ON/

OFF the heating element, starting and stopping the air pump, controlling the level of the water, the level of the disinfection fluid etc.

Ordering Key

VC 55 10 NNOPT

Type _____
Housing _____
Range _____
Output type _____
Housing material _____
Output ON/OFF delay _____

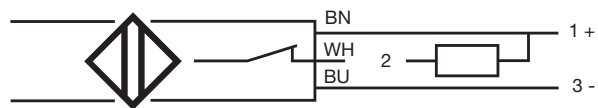
Type Selection

Housing dimensions W x H x D	Rated operating dist. (S _n)	Output	Ordering no. NPN Make switching	Ordering no. NPN Break switching	Ordering no. PNP Make switching	Ordering no. PNP Break switching
35 x 55 x 15	10 mm	No delay	VC 5510 NNOP	VC 5510 NNCP	VC 5510 PNOP	VC 5510 PNCP
35 x 55 x 15	10 mm	ON/OFF delay	VC 5510 NNOPT	VC 5510 NNCPT	VC 5510 PNOPT	VC 5510 PNCPT

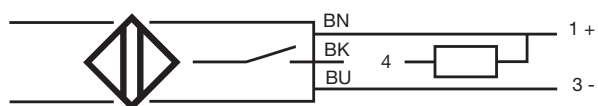
Specifications

Rated operation dist. (S_n)	2-10 mm factory set at 10 mm	Delay xNxP ON OFF xNxPT ON OFF	t _{ON} < 40 ms t _{OFF} < 40 ms 1s < t _{ON} < 5 s (typ. 3 s) 1s < t _{OFF} < 5 s (typ. 3 s)
Sensitivity	Adj. single turn pot. meter	Indication when activated	LED, red
Effective operating dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Environment Degree of protection	IP 65
Usable operating dist. (S_u)	0.8 x S _r ≤ S _u ≤ 1.2 x S _r	Temperature Operating temperature Storage temperature	-0° to +50°C (+32° to +122°F) -30° to +80°C (-22° to +176°F)
Assured operating dist. (S_a)	0 ≤ S _a ≤ 0.81 S _n	Housing material	PC/ABS, grey
Hysteresis (H)	3-20% of sensing dist.	Connection Cable	1.5 m, 3 x 0.3 mm ² grey PVC, oil proof
Rated operational volt. (U_e)	5 to 30 VDC (ripple included)	Weight	40 g
Ripple	≤ 10%	Approvals	UL
Rated operational current (I_e) Continuous	≤ 100 mA	CE-marking	Yes
No-load supply current (I₀)	≤ 10 mA		
Voltage drop (U_d)	≤ 1.5 VDC at max. load		
Power ON delay xNxP xNxPT	Max. 40 ms Max. 5 s		
Frequency of operating cycles xNxP xNxPT	≥ 15 Hz > 0.1 Hz (depending upon delay time)		

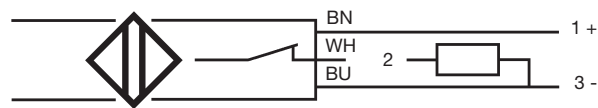
Wiring Diagrams



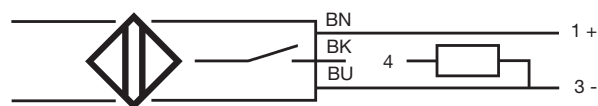
VC 5510 NNCP (T)



VC 5510 NNOP (T)

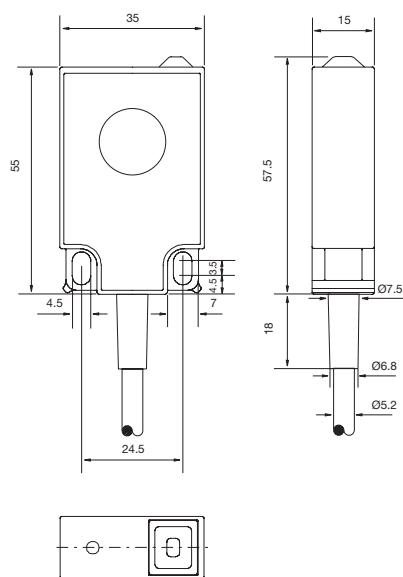


VC 5510 PNCP (T)



VC 5510 PNOP (T)

Dimensions



Delivery Contents

- Capacitive switch: VC 5510
- **Packaging:** plastic bag