

Level Sensors

Capacitive Level Detector

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
- IP 65

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

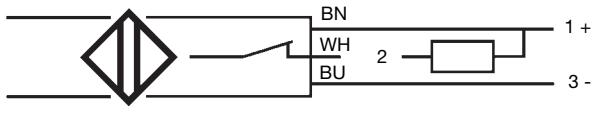
Housing dimensions W x H x D	Rated operating dist. (S _n)	Output	Ordering no. NPN Make switching	Ordering no. NPN Break switching	Ordering no. PNP Make switching	Ordering no. PNP Break switching
35 x 55 x 15	10 mm	No delay	VC 5510 NNOP	VC 5510 NNCP	VC 5510 PNOP	VC 5510 PNCP
35 x 55 x 15	10 mm	ON/OFF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

Specifications

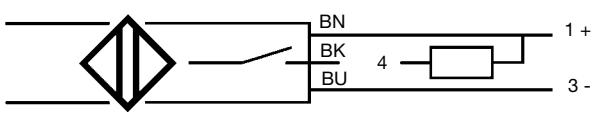
Rated operation dist. (S _n)	2-10 mm factory set at 10 mm
Sensitivity	Adj. single turn pot. meter
Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
Usable operating dist. (S _u)	0.8 x S _r ≤ S _u ≤ 1.2 x S _r
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 S _n
Hysteresis (H)	3-20% of sensing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

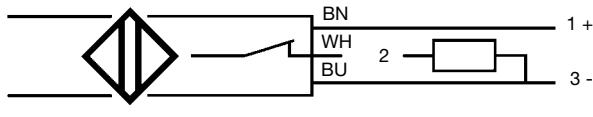
Wiring Diagrams



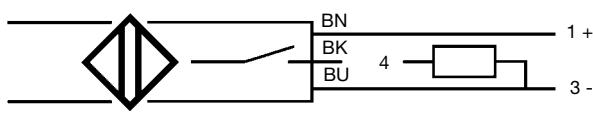
VC 5510 NNCP (T)



VC 5510 NNOP (T)

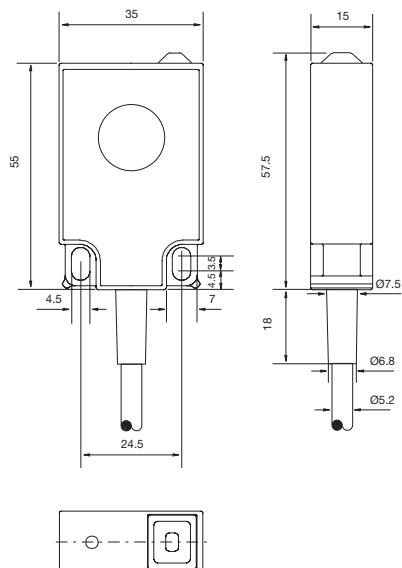


VC 5510 PNCP (T)



VC 5510 PNOP (T)

Dimensions



Delivery Contents

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