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





- · 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 desinfection fluid etc.

Ordering Key Type ______Housing ______ 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		No delay	VC 5510 NNOP	VC 5510 NNCP	VC 5510 PNOP	VC 5510 PNCP
35 x 55 x 15		ON/OFF delay	VC 5510 NNOPT	VC 5510 NNCPT	VC 5510 PNOPT	VC 5510 PNCPT

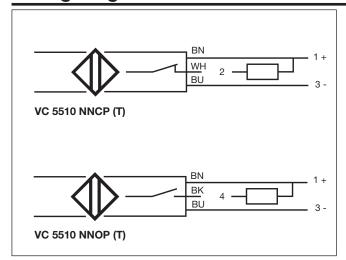
Specifications

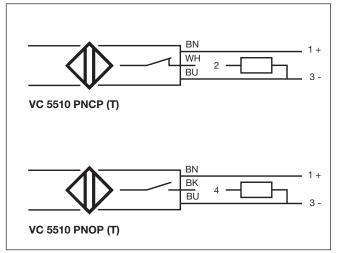
Rated operation dist. (S _n)	2-10 mm factory set at 10 mm
Sensitivity	Adj. single turn pot. meter
Effective operating dist. (S _r)	$0.9 \times S_n \le S_r \le 1.1 \times S_n$
Usable operating dist. (S _u)	$0.8~x~S_r \leq S_u \leq 1.2~x~S_r$
Assured operating dist. (Sa)	$0 \leq S_a \leq 0.81 \ S_n$
Hysteresis (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
xNxP xNxPT Frequency of operating	Max. 40 ms Max. 5 s
cycles xNxP xNxPT	≥ 15 Hz > 0.1 Hz (depending upon delay time)

Delay xNxP	ON	t _{on} < 40 ms
xNxPT	OFF ON OFF	$t_{OFF} < 40 \text{ ms}$ 1s < $t_{ON} < 5 \text{ s (typ. 3 s)}$ 1s < $t_{OFF} < 5 \text{ s (typ. 3 s)}$
Indication when activat	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		UL
CE-marking		Yes

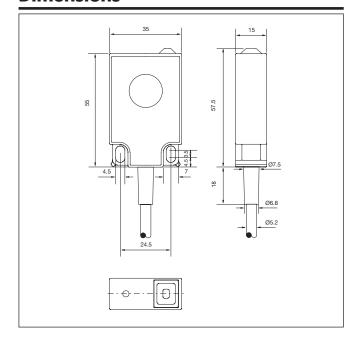


Wiring Diagrams





Dimensions



Delivery Contents

- Capacitive switch: VC 5510
- Packaging: plastic bag