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

VC 55 10 NNOPT

- **Type**
- **Housing**
- **Range**
- **Output type**
- **Housing material**
- **Output ON/OFF delay**

Type Selection

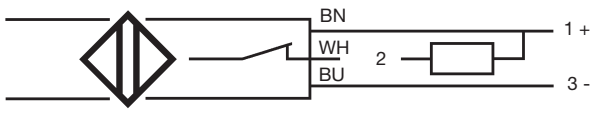
Housing dimensions W x H x D	Rated operating dist. (S_n)	Output	Ordering no. NPN Make switching	Ordering no. NPN Break switching	Ordering no. PNP Make switching	Ordering no. PNP Break switching
35 x 55 x 15	10 mm	No delay	**VC 5510 NNOP**	**VC 5510 NNCP**	**VC 5510 PNOP**	**VC 5510 PNCP**
35 x 55 x 15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

Specifications

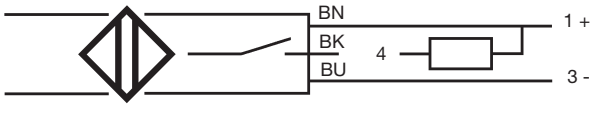
Rated operation dist. (S_n)		2-10 mm factory set at 10 mm
Sensitivity		Adj. single turn pot. meter
Effective operating dist. (S_r)		$0.9 \times S_n \le S_r \le 1.1 \times S_n$
Usable operating dist. (S_u)		$0.8 \times S_r \le S_u \le 1.2 \times S_r$
Assured operating dist. (S_a)		$0 \le S_a \le 0.81\ S_n$
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 xNxP xNxPT		 ≥ 15 Hz > 0.1 Hz (depending upon delay time)
Delay xNxP	**ON** **OFF**	 $t_{ON} < 40$ ms $t_{OFF} < 40$ ms
xNxPT	**ON** **OFF**	$1s < t_{ON} < 5$ s (typ. 3 s) $1s < t_{OFF} < 5$ 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		UL
CE-marking		Yes

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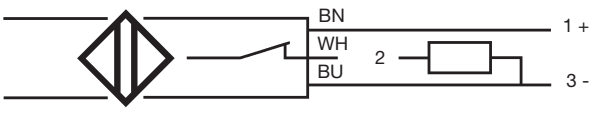
Wiring Diagrams



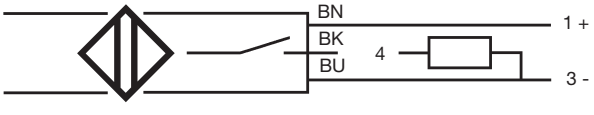
VC 5510 NNCP (T)



VC 5510 NNOP (T)

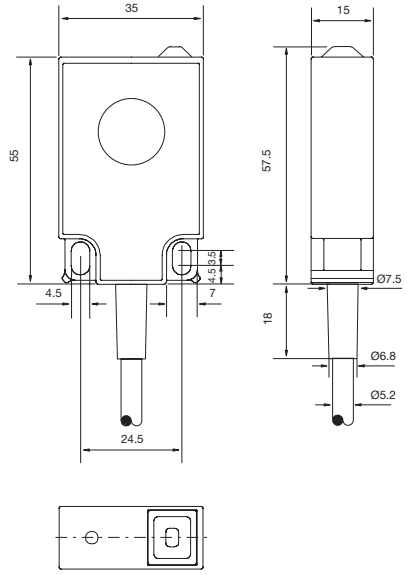


VC 5510 PNCP (T)



VC 5510 PNOP (T)

Dimensions



Delivery Contents

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

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