



- Simple and made to customer specification
- No moving parts of electrical contact and employ the use of reed switch
  - Usable for water, sewage water, waste water etc.
  - Compact size, reliable and long switch life.
- Wet parts are made from PP, Hyphalon cable and polyamide
  - Multiple choices of points (up to 6 contact points)
- Standard enclosure with PP + 20%GF terminal housing, IP-65
  - Applicable for temperature up to 80 °C
    - Length up to 20 meter - maximum
- All reed and lead wire contact are fully isolated



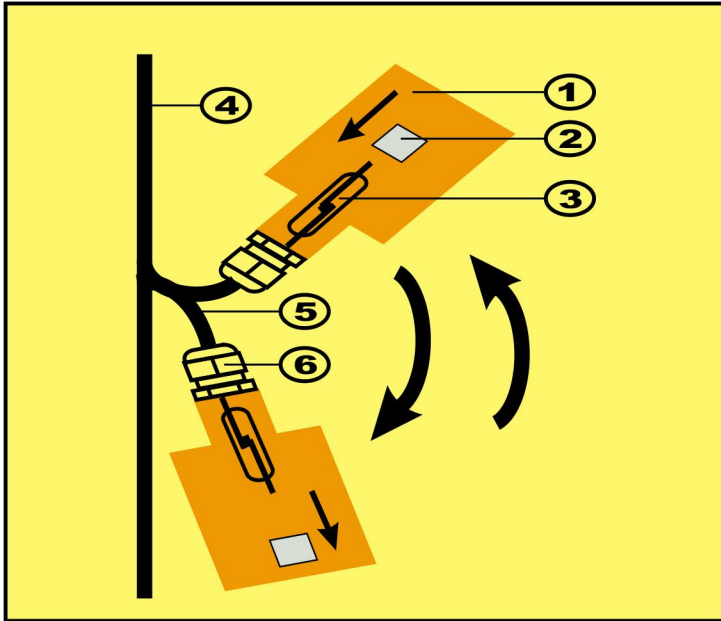
## DESCRIPTION

VCFP cable float level switch are cable type level switch that using for water, sewage water , waste water, and also dirty liquids..

The most essential characteristic of this products is its high reliability and its shape which no edges for which it is particularly suitable for dirty water.

The CFPP level switch allows electrical equipment to start and stop automatically (pumps, control valve, or alarms) when a setting level have been reached.

## OPERATION PRINCIPLE



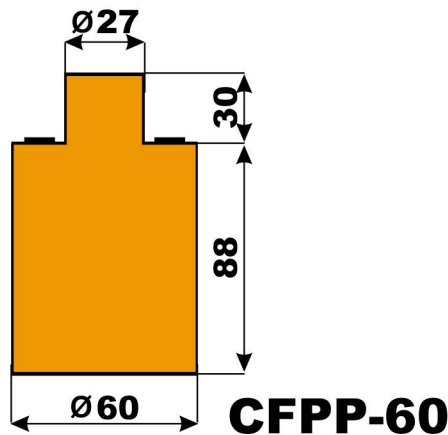
VCFP cable float level switches contain hermetically sealed reed switch (3) with a permanent magnet (2) inside the PP float (1). The PP float that guided by a Chemical proof hyphalon cable (5) and sealed by IP-68 nylon cable gland and filled with resin.

The cable float switch will be tightened to the PP rope with the level points depend on the customer requirement.

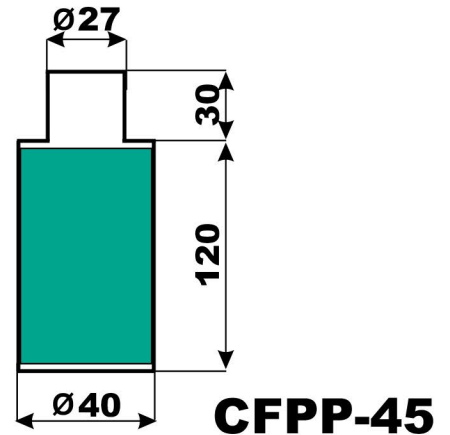
When No liquid (empty), the cable float will be in down position where the magnet (2) will be positioned away from the reed switch and the reed switch is in OFF position.

When the level of the liquids rises, the float will buoyant and make the Magnet (2) slides to the reed switch and therefore cause the reed switch (3) to be ON.

## CABLE FLOAT CFPP



**CFPP-60**

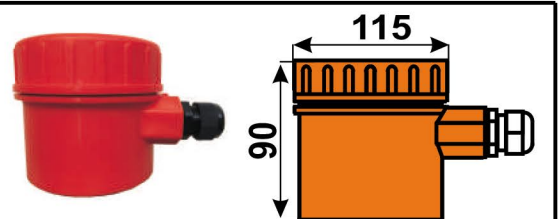


**CFPP-45**

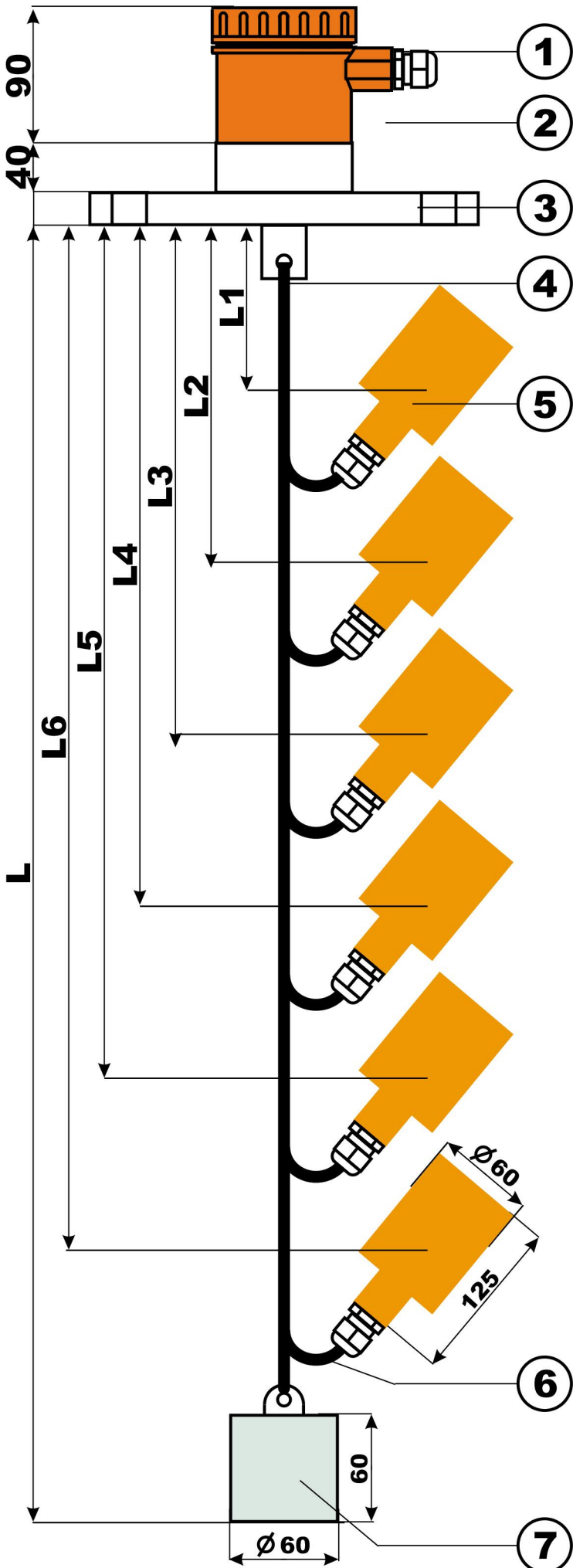
MODEL	MATERIAL	CABLE Hyphalon	SG Min (Kg/m <sup>3</sup> )	P Max (Barg)	T Max (°C)	APPLICATION
CFPP-60	PP	3 x 1mm, 90 °C	800	3	80	Water, Sewage & Waste Water
CFPP-45	PP	3 x 1mm, 90 °C	800	3	80	Water, Sewage & Waste Water

## TERMINAL HOUSING

MATERIAL	PP + 20% GF
PROTECTION	IP-65
ELECT CONN	½" NPT + Polyamid Gland
AMBIENT TEMP	70 °C
NO OF CONTACT	Max 6 x SPDT Contact



# SPECIFICATION



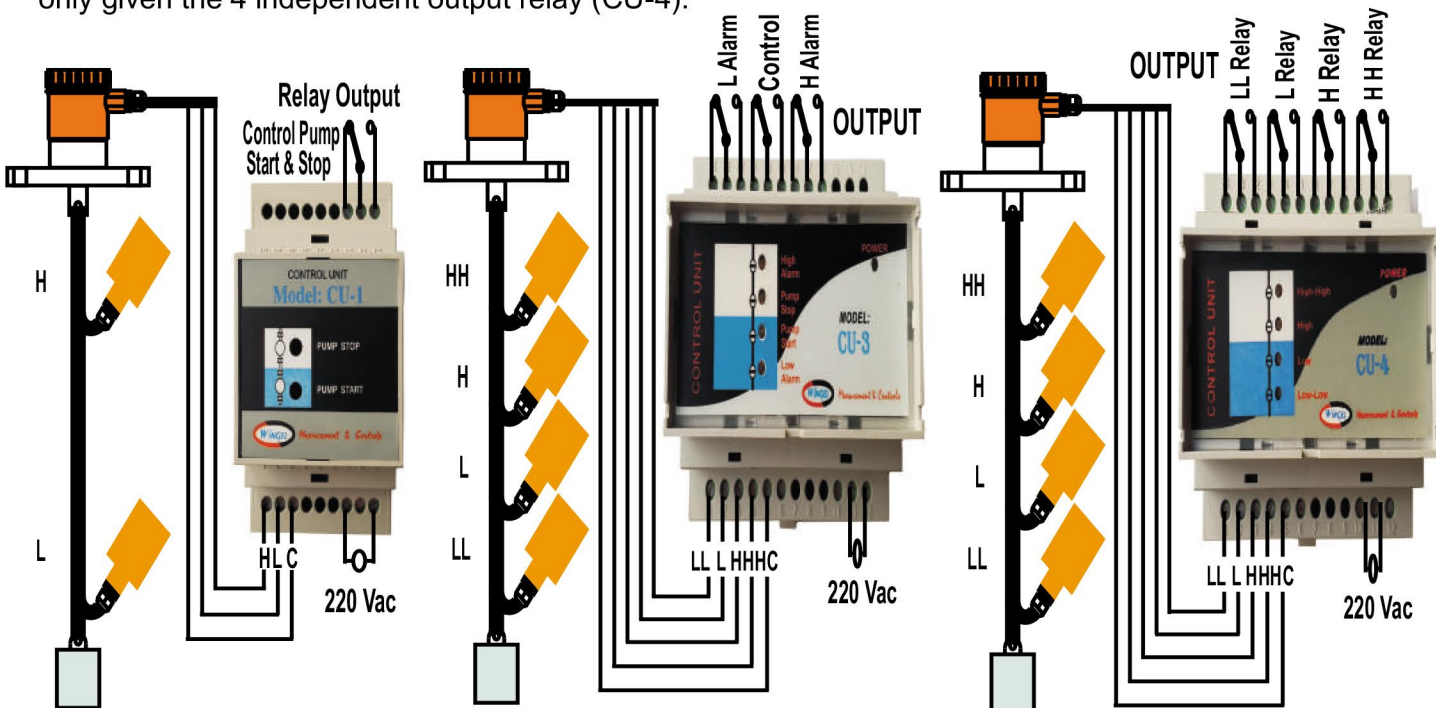
- 1 = PP + 20% GF Housing IP-65
- 2 = Electrical Connection, 1/2" NPT + Cable Gland Polyamid, IP-68
- 3 = Process Connection, Flange only, PVC material  
Minimum size = 2" (With CFPP-45)  
Minimum size = 3" (With CFPP-60)
- 4 = Polypropylene (PP) Guide Rope
- 5 = Polypropylene (PP) Cable Float  
CFPP-60 & cfpp-45
- 6 = Hyphalon Cable, H07BN4-F, 3 x 1mm, 90 DegC
- 7 = PP + Steel Weight

MODEL	VCFP
APPLICATION	Sewage & Waste Water
PRESS MAX (Barg)	3
TEMP MAX (Deg C)	80
MOUNTING	TOP
SG MIN (Kg/m3)	850
FLOAT TYPE	CFPP-60 & CFPP-45
FLOAT MATERIAL	Polypropylene (PP)
ROPE MATERIAL	Polypropylene (PP)
CONN MATERIAL	PVC
TERMINAL BOX	PP + 20%GF HOUSING, IP-65
OUTPUT CONTACT	SPDT - Max 6 Contact Points
RATING	1A, 230 VAC/DC, 40VA

FOR ORDERING PLEASE SPECIFY LENGHT	
<b>1 x Contact (D1)</b>	<b>2 x Contact (D2)</b>
L1 = .....mm L = L1 + 200 mm	L1 = .....mm L2 = .....mm L = L2 + 200 mm
<b>3 x Contact (D3)</b>	<b>4 x Contact (D4)</b>
L1 = .....mm L2 = .....mm L3 = .....mm L = L3 + 200 mm	L1 = .....mm L2 = .....mm L3 = .....mm L4 = .....mm L = L4 + 200 mm
<b>5 x Contact (D5)</b>	<b>6 x Contact (D6)</b>
L1 = .....mm L2 = .....mm L3 = .....mm L4 = .....mm L5 = .....mm L = L5 + 200 mm	L1 = .....mm L2 = .....mm L3 = .....mm L4 = .....mm L5 = .....mm L6 = .....mm L = L6 + 200 mm

# OPTIONAL RELAY PROTECTION UNIT

VCFP series float level switch can be also used with the "WINGEL" control unit CU-1, CU-3 or CU-4 for protection of the reed switch. The control unit will also be given the control relay output for emptying process or filling process (CU-1) and emptying or filling process and alarm high & low output relay (CU-3) and and given the 4 independent output relay (CU-4).



## ORDERING CODE

MODEL	DESCRIPTION			
VCFP	Cable Float Level switch for Water, Sewage Water and Waste Water			
<b>CODE 1</b>	<b>PROCESS CONNECTION SIZE</b>			
3	2"	3"	4"	Others Conn, Please Contact, Min 3" Flange
<b>CODE 2</b>	<b>PROCESS CONNECTION TYPE AND RATING</b>			
FJ	FJ = Flange JIS 10K	FA = Flange ANSI 150RF	FD = Flange DIN /PN10	
<b>CODE 3</b>	<b>NO OF CONTACT OUTPUT</b>			
D4	D1 = 1 x SPDT Contact	D2 = 2 x SPDT Contact	D3 = 3 x SPDT Contact	
	D4 = 4 x SPDT Contact	S5 = 5 x SPDT Contact	S6 = 6 x SPDT Contact	
<b>CODE 4</b>	<b>GUIDE TUBE LENGTH (MM)</b>			
L5000	Available length up to 20 meter, please specify length needed			
<b>CODE 5</b>	<b>FLOAT TYPE</b>			
CFPP60	Polypropylene Float with Hyphalon Cable			
CFPP45	Polypropylene Float with Hyphalon Cable for Narrow Space			
<b>VCFP-3FJ-D4-L5000-CFPP60 ..... Example</b>				



Measurement & Control

## PT. WINGEL INSTRUMEN INDONESIA

Measurement & Control

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