

Capacitance Point Level Switch - 'CPLS'



Specially designed, reliable level switch to detect level of almost all materials, water and similar liquids, coolants, lubricants, slurries, pastes, powders, grains and granules.

Salient Features

- Compact and robust design
- Trouble free operation with minimal maintenance
- Virtually capable to ignore build-up on sensor
- Simple to teach empty and full level with two buttons.
- Easy to configure o/p switching function NO or NC
- Teach lock facility for safety operation

Construction and Working

The switch consists of an electrode with full PTFE insulation and microprocessor based integral electronics housed in an enclosure. It measures the capacitance formed due to service material within its active area and provides PNP or NPN switching output.

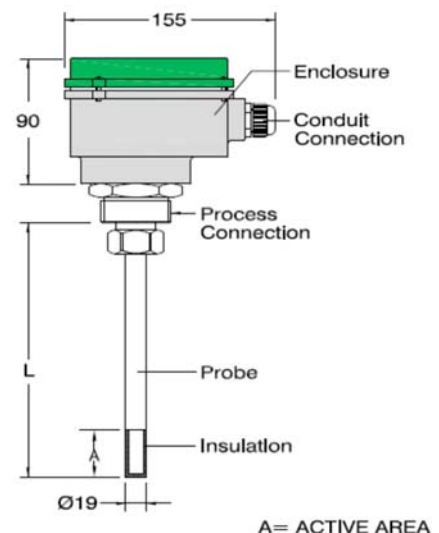
The CPLS can be also used alongwith Techtrol Switch Amplifier (TSA), whose relay output can be used for higher loads like pumps & solenoid valves.

Specifications

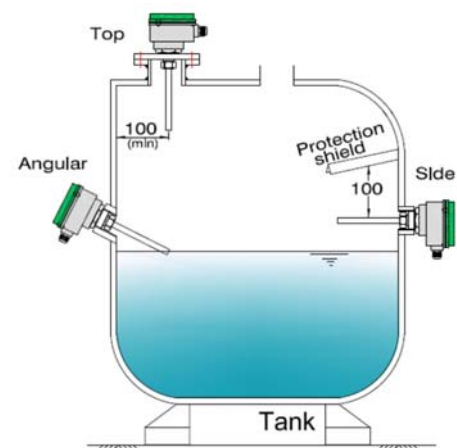
- Probe MOC : Full PTFE insulated SS304
Probe Length : 150 mm or 300 mm
Active Area : 20 to 30 mm
Process Conn. : 1-1/2" BSP Screwed or Flanged
Supply : 12 to 28 VDC
Output : PNP or NPN @ 35 mA load
Output Function: Normally Open (NO) or Normally Closed (NC) (Settable thru buttons)
Power : 8 mA @ 24 VDC (w/o load)
LED Indication : Red (NC); Green (NO)
Programming : Through two push buttons for
 1. Teach Empty (*probe uncovered*) or Full Level (*probe covered*)
 2. Selection of switch function NO/NC
 3. Teach Lock or Unlock
Enclosure : Cast Al. WP IP65 or ABS IP65
Conduit Conn. : PG 11 Cable Gland (Nylon)
Max Temp : 60 °C
Max Pressure : Atmospheric



Schematic Diagram



Installation

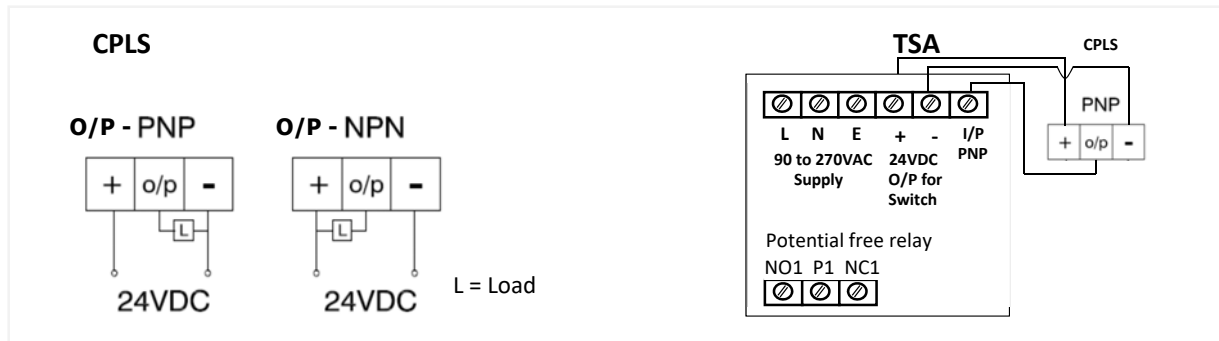


Techtrol Switch Amplifier (TSA)

Model : TSA
 Enclosure : ABS Panel mounted, IP41
 : Size - 72 x 72 x 120 D mm
 Enclosure : ABS x IP41
 Supply : 90 – 270 VAC or 24 VDC
 Input : PNP or NPN
 Output : Relay x 1 SPDT, 5A@250 VAC
 : 24VDC for level switch
 LED Indication : Green – Supply, Red – Relay Status



Terminations and Wiring



Model Identification

		CPLS -			
Enclosure x Conduit Connection					
Cast Al, WP IP66 x PG11 Cable Gland			A		
ABS, WP IP66 x PG11 Cable Gland			B		
Process Connection					
1-1/2" BSP Screwed				1	
1-1/2" NB ASME 150# Flange				2	
Other				O	
Output					
PNP					P
NPN					N
Techtrol Switch Amplifier					
Provided					W
Not Provided					P

Ordering Information

Model No. x service material, operating temperature & pressure.

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