SA140FDT0300-7 CAPACITANCE LEVEL SWITCH (REMOTE PROBE TYPE)OPERATION MANUAL

Specification :

ltem	Spec.	Remark
Enclosure Material	PC	
Power Supply	11~15Vdc	
Ambient Temperature	-20~55°C	
Operation Temperature	-20~80°C	
Sensitivity	Super High : 0.5~10pF STD : 1~20pF Low : 5~100pF Super Low : 10~200pF	Switch on/off
Alarm	0~100%	Resistance adjustable
Output Contact	MOSFET X 2 (3.5AA15%, 12VDC Sourcing)	
Power indicator	Green LED	
Alarm indicator	1 st Red LED(OUT1) 2 nd Yellow LED(OUT2)	

Installation and set-up as following :

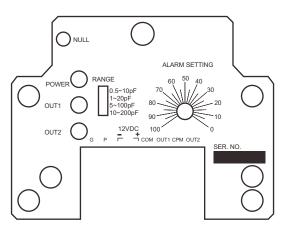
- 1. Ensure that power is 11-15Vdc and plug in.
- 2. Install Capacitance Level Switch on tank.
- 3. Make sure the bin is empty.
- 4. Press NULL for about 5 seconds, meanwhile the LED of OUT1 and OUT2 is flashing. After flashing, LED will be on meaning the calibration is completed.
- 5. Cover the probe with substance.
- 6. After probe being covered, proceed to step 7 if LED of OUT1 and OUT2 is off; otherwise proceed to step 8.
- 7.1 Twist the knob "ALARM SETTING" from 70(default) to 0. When the LED light is on, twisting half-circle counter-clockwise.
- 7.2 If LED is still off while twisting to 0, tune "RANGE" to larger scale and twist "ALARM SETTING" to 100. Repeat 7.1.
- 7.3 Tune "RANGE" to 10-200pF and twist "ALARM SETTING" to 0. If LED is still off, twist "ALARM SETTING" to 50.
- 8. Twist the knob "ALARM SETTING" from 70(default) to 100. When the LED light is off, keep twisting half-circle.
- 9. Keep testing if the probe is covered by substance. Set-up is completed once the switch functions normally.

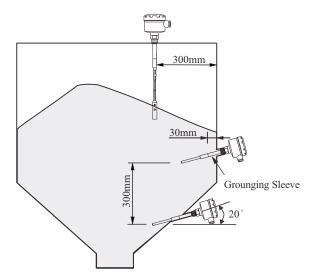
Installation

- 1. Distance between the two capacitance level switches should be at least 300mm. Distance between tank and capacitance level switch should be at least 300mm.
- φ21grounding sleeve should protrude at least 30mm from tank.
- 3. The side-mounted capacitance level switch should be placed at angle of 20 degrees.
- 4. When used in outdoor, the conduit opening should face downward.

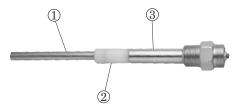
Alarm and contact output:

Probing	Power supp	ly (12V)	LED indicator	Delay time
Non-contact with substance	Output 1	12V	ON	<0.8 sec.
	Output 2	12V	ON	<0.8 sec.
Contact with substance	Output 1	0V	OFF	<0.8 sec.
	Output 2	0V	OFF	90A2 sec.
Remove substance	Output 1	12V	ON	<0.8 sec.
	Output 2	12V	ON	<0.8 sec.





Structural drawing



- ① Probe: SUS304 or SUS316
- ② Insulation: UPE or PTFE
- 3 Grounding Sleeve: SUS304 or SUS316

