

Features

- Switch output potential free Relay Contact
- Simple, Low Cost & Reliable
- Electronics Protection Class : Weatherproof IP 67
- Trouble free operation for conductive / non conductive Liquids, slurries

Description

Electronet series CLS 01 are capacitance type level switches. Vessel wall & probe forms two electrodes. If vessel is of non conductive material, the probe will be coaxial type. The distance between electrode & surface area of electrodes remain unchanged. The variable is the depth of the material being measured which represents the dielectric constant between two electrodes. Air & vacuum have relative dielectric constant as 1 & that of liquids, it is greater than 1. The capacitance of the capacitor therefore depends on how much material lies between the probe & vessel wall i.e. Whether the probe is covered with or free from material. The capacitor changes with change in level of the material & provides switching output at desired preset level.



Technical Specifications

Probe Length	As per requirement (Rigid Type max 3000mm)		
Probe Dia	15 mm to 25 mm		
Accuracy	+/- 5mm W. R. T. Set Point		
Repeatability	+/- 1% Entire Probe Length		
Switch Differential	Fixed +/- 10mm		
Process Temperature	100°C max		
Process Pressure	10 kg/cm ² max		
Probe MOC	SS316, SS316L		
Type of Sensing Electrode	Rigid Type, Flexible Type		
Electrode Insulation Material	PTFE		
MOC Electronics Enclosure	SS-304		
Seal / Gaskets	EPDM / PEEK		
Electrical Connection	M20 x 1.5 Cable Entry / DIN 43650 Connector		
Type of Output	Potential free relay output		
Power Supply	24V DC (+/- 10%)		
Power Consumption	< 6 VA		
Response Time	< 1 Sec.		
Probe Type	1) Single Rod 2) Coaxial		
Temperature Coefficient	+/- 0.01% per °C		
Enclosure Protection Class	SS Enclosure : IP 65 or more as per IEC-60529		
Process Connection	1) 1" BSP (M)	2) 1½" BSP (M)	3) 2" PVC Flanged
	4) 2" SS316 Flanged	5) 50 NB SS316 Tri Clover	6) M27x1.5 (M) 7) Other
Mounting	Tank Mounted / Mounted over open sumps		
Ambient Conditions	Temperature 0 to 70°C / Humidity 0 to 98% non condensing at 35°C		

CLS 01

CAPACITANCE TYPE LEVEL SWITCH



Assembly Overview

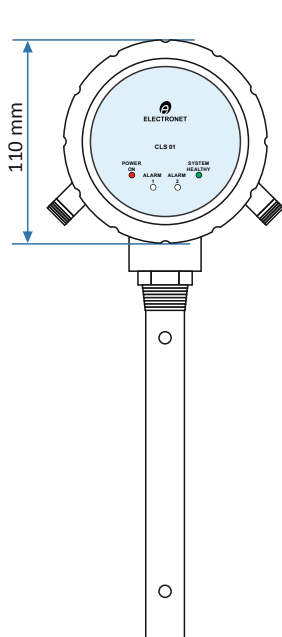


Fig. 1 Front View

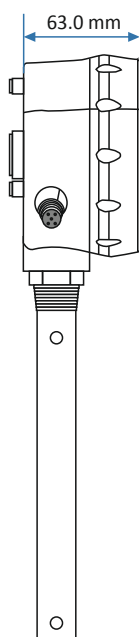


Fig. 2 Side View

Connection Details

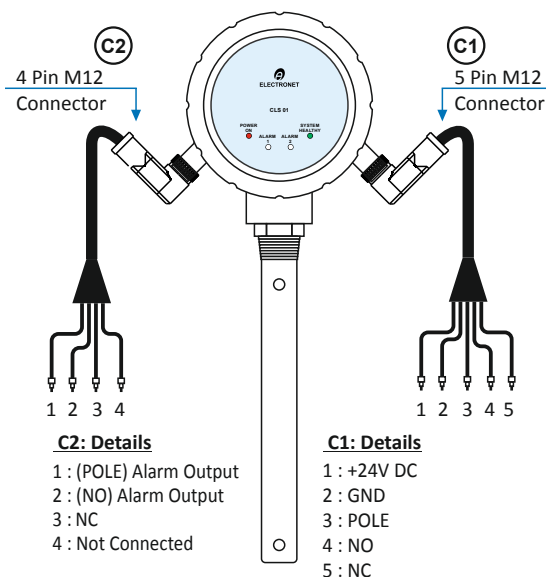


Fig. 3 Front View

Ordering Information

Sample Order Code : CLS 01-A1-B1-C1-D1-E1

Parameter	Code	Description
A	Measuring Range	A1 Upto 1000mm
		A2 Upto 2000mm
B	Power Supply	B1 24V DC
		BX NA

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

Parameter	Code	Description
C	Alarm Output Type	C1 Open Collector
		C2 Potential free relay output
		C3 PNP Output
		C4 Direct Contact Output (Mx 100 mA Load)
D	Probe MOC	D1 SS-316 + PTFE
		DY Other
E	Process Connection	E1 1" BSP Threaded
		E2 2" BSP Threaded (M)
		E3 2 " SS-316 Flanged
		EY Other

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