

RF Capacitance Point Level Switch 'RFC'



SINCE 1984

Consists of a Sensing Probe with Electronic switching unit Integral with the Probe. The Sensing Probe comprises of 3 elements viz. Sensing rod, SS Coatguard Shield and PTFE Insulation for Liquids / Ceramic insulation for Solids & Slurries. The combination of special electronics and coat guard technique provides immunity against material built-up on the Probe & Container Wall.

Salient Features :

- High Reliability as coat guard technique ignores material built-up on the probe.
- Ease of calibration & installation
- Suits Highly Dusty Environment.
- Field selectable operation logic to configure either High or Low level switching.
- Economic Solution for critical applications.

Technical Specifications :

Sensing Probe :

Type	: Standard or Heavy
Std. Probe Length	: 350mm (Max 3000mm)
Sense rod	: SS304
Coat guard shield	: SS304
Grounding	: GI / SS304 (Optional)
Insulation	: a) PTFE (150°C) b) Ceramic (225°C)
Optg.Temp	: 150°C / 225°C with GI. temp stand off.
Mounting	: Top / Side
Process conn	: a) Screwed - 1 ½" BSP (M) (std) b) Flanged- 1 ½"NB, BS-10 T 'D'

Integral Switching Unit :

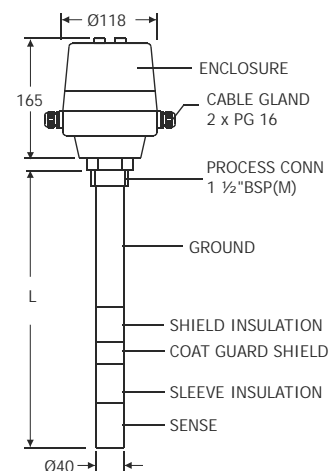
Enclosure	: Cast Al, Weather proof (powder ctd), Integral with Probe
Cable entry	: 2xPG 16 (Polymer)
Ambient Temp.	: 0°C to 60°C
Supply	: 230 or 110V AC, 50Hz (±15%) or 24VDC.
Power consumption:	2VA
Output	: 2 Sets of potential free C/O contacts rated at 5Amps, 230V AC (resistive load)
Switching delay	: Continuously adjustable from 2 to 20 secs. probe free and covered.
Safety operation	: Field selectable switch over for min or max (FSL / FSH) switching.
LED Display	: Green - Normal; Red - Alarm; Yellow - Power On

Application :

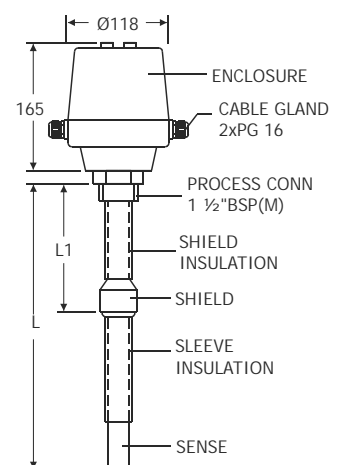
Cement, Sand, Lime, Soda Ash, Talcum powder, Milk / Chocolate powder, Coffee, Sugar, Salt, Resin Powder & Pellets, Fertilizer, Wheat, Flour, Rice, Barley, Butter, Iron Powder, Carbon Calcium, Slurry, Sludge, Sewage, Coal, Wax, Cream, Sodium, Carbonate, Ink, Alcohol, Beer, Waste Water, Syrup, Chromium Acid, Sesame.



HEAVY PROBE WITH INTEGRAL SWITCHING UNIT



STANDARD PROBE WITH INTEGRAL SWITCHING UNIT



Model Identification : - 'RFC'

System

Integral (Standalone) _____ I
 Two Part _____ T

Type-Probe

SS304 Rigid Standard _____ 1
 SS304 Rigid Heavy Duty _____ 2
 GI Flexible Standard _____ 3
 GI Flexible Heavy Duty _____ 4
 SS304 Flexible Standard _____ 5
 SS304 Flexible Heavy Duty _____ 6
 MS Plated Disc _____ 7
 Others _____ 0

Probe Encl x Control Unit Encl

Cast Al WP IP66 (Syt I) _____ 1
 Cast Al WP IP66 x Cast Al WP IP66 (Syt T) _____ 2
 Cast Al Ex-Proof Gr. IIA-IIB x Cast Al WP IP66 (Syt T) _____ 3
 Others _____ 0

Process Connection

SS304 Screwed 1 1/2" BSP (M) _____ 1
 SS304 Flanged 1 1/2" BS-10 T 'D' _____ 2
 Others _____ 0

Extended Grounding

Without _____ W
 GI _____ G
 SS304 _____ N

Optg. Temperature

150°C _____ R
 200°C _____ T
 600°C (Two Part Syt & Rigid Heavy Duty Probe Only) _____ H

Supply

110VAC _____ 1
 230VAC _____ 2
 24VDC _____ 3

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R A T E D

NSIC-CRISIL SE-1A

AREA REPRESENTATIVE :

All dimensions in mm, except specified.