



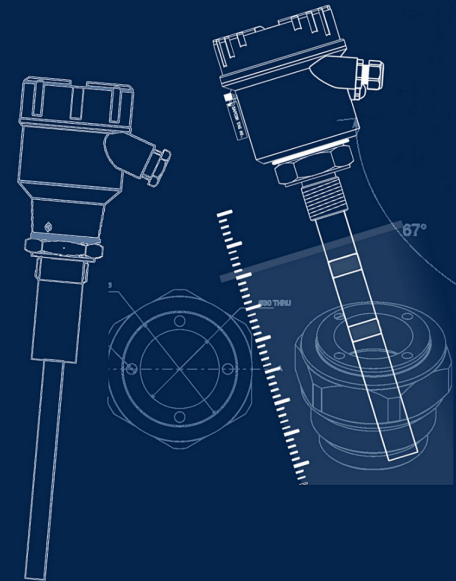
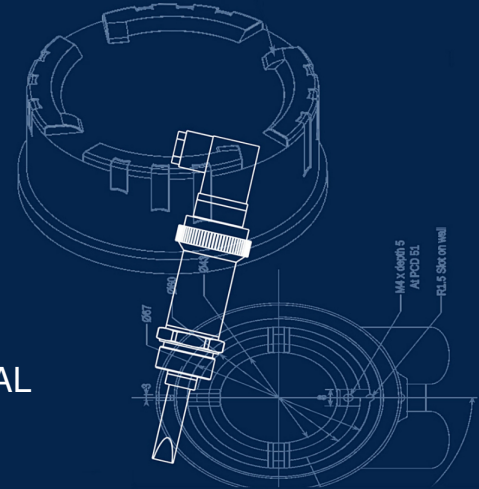
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# INSTRUCTION MANUAL

**SLC**

Capacitance Level Switch

Version 2.2



## SAPCON INSTRUMENTS PVT. LTD.

30+ Years in Process Control Instrumentation

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## Revision History

Revision	Date	Author(s)	Description
1.0	25 Feb 2014	RND	First Version Editing
1.1	10 Aug 2014	MRK	Applications Revision
1.2	20 May 2015	RND	Features Revision
1.3	28 Nov 2015	RND	Specs Revision
1.4	12 Jun 2016	RND	Specs Revision
2.0	08 Jan 2017	BRND	Revised Format
2.1	17 Sep 2017	BRND	Branding Revisions
2.2	21 Feb 2024	BRND	Branding Revisions

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- The images shown in this manual may differ from the actual instrument / housing in terms of dimensions, color and design. Please refer to GA drawings for dimensional details.
- Values (of performance) described in this manual were obtained under ideal testing conditions. Hence, they may differ under industrial environment and settings.

### General Instructions

- Instrument shouldn't block the material filling inlet.
- Secure the cover of housing tightly. Tighten the cable glands. For side mounting, the cable glands should point downwards.
- For side mounting, provide a baffle to prevent the material from falling on the probe.
- When handling forks, do not lift them using their tines. While using them with solids, ensure that material size is less than 10mm.
- Deforming the shape of the tines may interfere with the fork's operating frequency.
- Make all electrical connections as instructed in the manual. Don't power on the device before verifying the connections.



## 1 Introduction

SLC is a capacitance based level limit switch which offer level detection solution for fine, coarse, bulky solids, non-sticky slurries and liquids. The measuring system consists of an evaluation unit, an electronic insert and a probe. It works by utilizing the dielectric property of the application material. SLC comes with two models range :

- Integral Model
- Split Model



Figure 1: SLC Product Image

## 2 Operating Principle

The probe comprises of a sense electrode, electrically isolated from the metallic tank by means of a suitable insulator. The sense electrode and the vessel wall serve as the two electrodes of a capacitor with the service material acting as the dielectric. A change in the level of material causes a change in the dielectric, which in turn causes the value of this tank capacitor to change.

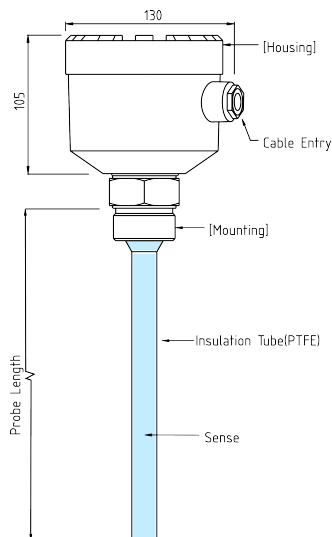


Figure 2: Part Diagram(Integral)

## 3 Features

- Power Supply: 90 to 265 V AC & 24 V DC.
- System fault indication for added reliability.
- No moving parts, no wear and tear, maintenance-free.
- Outputs options: Single-Point, Two-Point, Three-Point Switching and Pump Control Logic.
- High temperature probe suitable up to 350°C.
- Certifications: Flame Proof IIA, IIB IP65 Housing.

## 4 Applications

- Brewery Industry
- Dairy Industry
- Chemical Industry
- Man-made Fibre
- Soya Industry
- Packaging Industry

## 5 Electrical Specifications

Please refer to Table 1 for Electrical Specifications.

PARAMETER	VALUE
Input Power Supply	18-55V DC and 90 - 265V AC at 50Hz on same terminal
Output	- Single Point Switching - Two Point Switching - Three Point Switching - Pump Control Logic
Power Consumption	- 2.2W (SPDT) & 5W (DPDT) at 24 V DC - Less than 2W at 230V AC
Switching Indication	- Green : Normal - Red : Alarm - Yellow : Fault Indication
Fail-safe	Field Selectable <ul style="list-style-type: none"> <li>• Open - Fail-safe High (For High Level)</li> <li>• Close - Fail-safe Low (For Low Level)</li> </ul>
Operating Temperature	- Ambient Temperature: 0°C to 65°C - Process Temperature: 0°C to 250°C(PTFE) & 400°C(Part ceramic)
Relay Rating	6 Amp at 230 VAC

Table 1: Electrical Specifications

## 6 Mechanical Specifications

Please refer to Table 2 for Mechanical Specifications.

PARAMETER	VALUE
Controller Housing	- RB: Cast aluminium weatherproof powder coated paint IP-65 (Integral) - FP2C: Cast aluminium weatherproof & flameproof powder coated paint suitable for Gas Group IIA & IIB as per IS 2148 - SNSR: Pressure Die Cast Aluminium weatherproof IP-66 (Split/Remote)
Cable Gland	1/2" BSP SC Gland, 1/2" BSP DC Gland, 1/2" NPT DC Gland, Blind plug
Mounting	- Screwed : 1/2", 3/4", 1", 1 1/2" , 1 1/4" BSP/NPT - Flanged : As per your specifications
Standoff Material	GI (Galvanized Iron) / Stainless Steel
Probe Length	100mm to 20m (Rope arrangement)

Table 2: Mechanical Specifications

## 7 Application Specifications

Please refer to Table 3 for Application Specifications.

PARAMETER	VALUE
Sensitivity	- Dense Media/Build Up - 1 - Lighter Media - 5
Density of media (min)	0.7 gm/cm <sup>3</sup>
Grain Size	A maximum of 12mm
Response Time	- Cover Delay : 1-2 second - Uncover Delay : 1-3 seconds

Table 3: Application Specifications

## 8 Technical Specifications

Specifications for Split model.

### 8.1 Teflon Coat Probe

For Teflon Coat Probe, please refer Table 4

PARAMETER	VALUE
Housing	Cast aluminum weather proof
Cable entry	One no.1/2 " BSP/NPT/BRASS/Plastic/ Stainless Steel
Cable gland	Single /double Compression /blind plug
Mounting connection	- Screw : 1"/1 1/2"/BSP/NPT - Flange : As per requirement / As per drawings
Insulating material	PTFE
Process Temperature	Probes types available for 80°C / 120°C/ 250°C
Extension	- Rod : Stainless Steel/Mild Steel (Plated) - Rope : Galvanized Steel/Stainless Steel
Reference Material	PTFE/Hastelloy
Sensing part	Stainless Steel/ Mild Steel (plated)
Grounding pipe	Galvanized steel/ Stainless Steel/Mild Steel (plated)
Stand-off	Galvanized steel/Stainless Steel/Aluminium Fin
Discharge device	In case of static charge build-up (for solid application)

Table 4: Teflon Coat Probe

## 8.2 Evaluation Unit

For Evaluation Unit, please refer Table 5

PARAMETER	VALUE
Housing	Cast Aluminum weather proof stoving enamel painted/Siemens Grey powder coated /Epoxy coated suitable for back panel/ wall mounting
Cable Entry	1/4" NPT DC Gland Brass
Cable Gland	Single/ Double compression Size 1/2"/ 3/4" BSP / NPT / Brass / Stainless steel / NG20
Tolerable Ambient Temp.	0°C to 60°C
Power consumption	5VA approx
Mains Supply	90 to 265 V AC, 50 Hz (universal power supply), Optional 24 VDC
Fail-Safe Mode	Max / Min field selectable
Output	One/two set of potential free c/o contacts rated at 6Amps 230 V AC for non inductive loads
Indication	Red LED for alarm and Green LED for Normal condition
Sensitivity Indicator	Ten dot display for sensitivity calibration, also for showing the material trend in the vicinity of the probe
Calibration	Through multi-turn potentiometer
Measuring Frequency	100 KHz
Response Time	Less than 1 second
Switching Delay	Adjustable from 5 to 20 seconds (covered and uncovered) applicable for model SLsC-322M and 622M
Inter-Connection	Between Probe and Evaluation unit, by special coaxial cable with drain wire
Weight	2.25 Kgs
Over all dimensions	As per approved Drawings

Table 5: Evaluation Unit

## 9 Installation Guidelines

The product should be installed in horizontal or vertical position. The following image displays different allowable installation positions. Observe that when installed directly under the material inlet source, a canopy called baffle of appropriate strength and size should be welded right above the fork as shown.

While installing the instrument, please take care of the following points:

- The instrument shouldn't block the material filling inlet.
- Secure the cover of housing tightly. Tighten the cable glands.
- For side-mounting, provide a baffle to prevent the application material from falling on the instrument. Please refer to Figure 3.

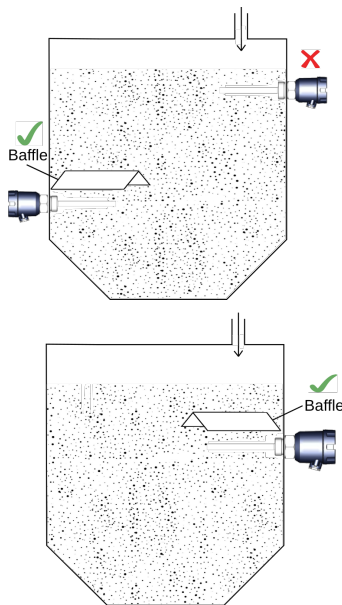


Figure 3: Correct Side Mounting

- Make all electrical connections as instructed in the manual. Don't power on the device before verifying the connections.
- To prevent the ingress of moisture and water seepage in side mounting position, the cable entries should always point downwards.
- Weatherproofness of enclosure is guaranteed only if the cover is in place glands adequately tightened. Damage due to accidental entry of water can be avoided if the instrument is installed in a rain shade.
- If the ambient temperature is high, the instrument should not be installed to receive direct sunlight. In case such a position of shade is not available, a heat shield should be fitted above the instrument especially if the operating temperature lies between 60°C and 80°C.

- While screwing the instrument, the hexagonal mounting bush should be turned and not the housing.

## 10 Inter Connection

- Refer the attached diagram before making the inter connection.
- One such diagram is also pasted inside the evaluation unit cover.
- Connect the mains supply as mentioned inside the cover.
- Verify line voltage before switching on the instrument.
- Inter-connection between probe and evaluation unit is made by means of special PTFE co-axial cable of pre-trimmed length.
- Ensure controller unit is earthed properly.
- Use three-core cable of 1.5 mm sq. diameters, in case of A.C power supply & relay contacts.

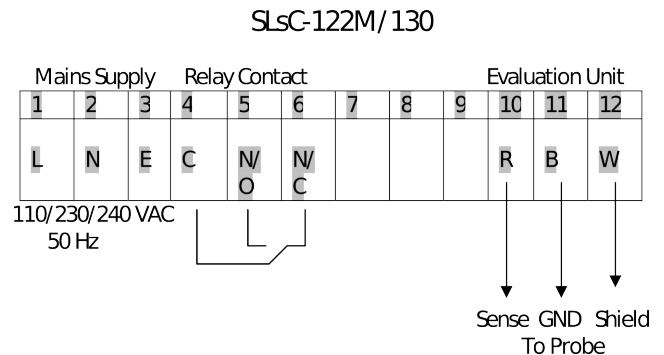


Figure 4: Connection Diagram

## 11 Precautions

- Refer the diagram pasted inside the cover before making the inter-connection.
- Do not immediately energize the instrument until wires are fully secured.
- In case of DC power supply instrument -ve is ground.
- Always tighten the housing cover and the cable entry securely.
- Use appropriate size of spanner for rotating the mounting bush.
- True earths must be connected to the instrument.
- Use recommended cable only for interconnection.
- Weatherproofness of enclosure is guaranteed only, if the cover is in place & cable glands adequately tightened.

N.B: - Evaluation unit can be mounted away from the probe at a maximum distance of 15 meters in case of dot display instrument 30 meters in case of bar display instrument.

## 12 Fail-Safe Mode

This is field selectable option depending upon the process requirement. Maximum fail-safe or minimum fail-safe can be obtained by selecting the FSS toggle switch mounted in the center of the PCB. De-energized condition of the relay is used to initiate an alarm. Even if the mains supply fails or instrument doesn't work, relay will initiate an alarm.

### 12.1 Maximum Fail-Safe

When the level rises and the material covers the probe the relay is de-energized, an alarm is initiated and Red LED glows. For achieving this mode of operation shift the toggle switch to fail-safe high.

### 12.2 Minimum Fail-Safe

When the level falls and the probe is uncovered, the relay is de-energized, an alarm is initiated and Red LED glows. For achieving this mode of operation shift the toggle switch to fail-safe low.

## 13 Calibration

Calibration controls are accessible after opening the evaluation unit cover. Each of the set points is provided with a fail-safe select switch, a multiturn set point adjustment pot, and a red LED alarm indicator. Range selection is done by means of a switch which is common to both the set points. As the SLC is specifically designed to detect point levels in the same tank, the range selection is made common to all the point levels. Evaluation units provided with adjustable switching delay for each of the point levels have the capability of introducing a delay in switching for either probe covered or uncovered or for both conditions in two channels. In that case single turn delay adjusting pots are provided for the purpose.

- After installing the probe and evaluation unit, and making all the connections as shown in the connection diagram, set all three fail-safe selection switches to fail-safe High position.
- Rotate all three set pt. adj. multiturn pots counter-clockwise to their end positions. The pots are multiturn so they have to be rotated about 25 to 30 full turns or till the click sound is heard.
- Set range selection switch to range (I).
- Set all switching delay controls if any to their extreme counter clockwise position.
- Connect the appropriate mains input. The yellow LED should indicate that the mains has been properly connected

**CAUTION** : Instruments meant for operation at 110 V AC should in no case be connected to 230 V AC. If so done they are likely to suffer permanent damage.

### 13.1 High Level Calibration

- Calibration starts with material filled up to the highest desired level point.
- If the red LED remains off, go to step no.8. If the red LED remains ON change the range selection switch to the next higher range until the red LED goes off then go to next step no.8. If it does not go OFF even in the highest range, consult the factory.
- With material at the desired High Level point and red LED OFF, rotate the multiturn set pt. Adj. pot 1 gradually clockwise until the red LED just goes ON ( by rotating the pot gradually forward and reverse the exact switch point can be achieved.

Now the calibration of high level set point is over.

### 13.2 Low Level Calibration

NOTE: While doing the calibration of low level set point, do not disturb i) Fail safe switches (ii) Range selection switch and (iii) Set point adj. pot 1 and 2.

- Empty the tank upto the desired Low Level Point.
- Set the multiturn Adj. control corresponding to the Low Level (set pt. adj. 3) gradually clockwise till the red LED alarm 3 goes ON.
- Again rotate the same multiturn set pt. adj. pot 3 slowly counter clockwise until the red LED (Alarm 3) just goes OFF (by rotating pot gradually forwards backwards the exact switching point can be achieved.
- Set the fail safe select switch 3 to 'Low position'.
- Calibration is done.

## 14 The Blind Calibration

In case it is not possible to vary the material level during calibration the standard method cannot be used. In such cases an approximate calibration can be carried out by the blind method until a standard calibration is done. However it is not an accurate method and should only be used when standard method is not possible.

- Set the FSS to desired mode by means of the toggle switch.
- Ensure that the material does not cover the sense element.
- Rotate the sensitivity adjust pot fully counter-clockwise.
- Turn the pot slowly clockwise till the 6th LED of the display glows.
- This setting will work well for most of the materials.

NB: -For probe uncovered and display set to 6th LED, the Green indicator LED glows when FSS is set to High mode whereas Red indicator LED glows when FSS is set to Low mode.

## 15 Troubleshooting

PROBLEM	PROBABLE CAUSE	REMEDY
No change in bar display	No change in the level or evaluation unit is faulty	Check level or evaluation unit with other probe
LED indication does not changes	LED driving circuit faulty	Diagnose the fault and remove the defective component
Relay not actuating but LED changes	Relay or its associated circuit is faulty	As above
Evaluating unit o.k. but no change occurs when probe is connected	Probe or inter connection wire is disconnected	Check cable connectivity and probe
Relay actuating but no output.	Relay contact worn out /track discontinuity	Replace relay/ check tracks

Table 6: Troubleshooting

## 16 Warranty

Instrument is manufactured as per the purchase order specification. Standard guarantee for twelve months from the date of commissioning or eighteen months from the date of supply whichever is earlier. Guarantee is against manufacturing defects. We undertake to correct such defects which are due to workmanship, at our expenses, Instrument should be forwarded to us on freight paid basis with seals unbroken. The guarantee is valid for our customer and does not extend to third parties or caused by mishandling, accident or abnormal conditions.

## 17 Customer Support

Thank you for going through the instructions given in this manual. To further ease the process of installation and use, we have developed special demo videos which are hosted on YouTube.

Sapcon's YouTube channel, SAPCON INSTRUMENTS, lists all these videos: <https://goo.gl/dnxfcz>

Should you require further information regarding installation, use or working of the instrument, please don't hesitate to contact us. Kindly provide the following information at the time of contacting:

- Instrument Model and Serial Number
- Purchase Order Number and Date of Purchase
- Description of the query
- Your contact details

In an attempt to serve you better, we are open seven days a week (9:30am to 7:30pm). We are available at:

- [www.sapconinstruments.com](http://www.sapconinstruments.com)
- [sales@sapcon.in](mailto:sales@sapcon.in)
- +91-731-4757575



## 18 Product Selection Order Code

### Product

SLC\_S : SLC Series-Capacitance Type Level Limit Switch

SLC\_T : SLC Tri\_Point-Capacitance Type Level Limit Switch (SL)

#### Type

I : Integral (sensor in the same unit)

SL : Split (Sensor on the probe, Evaluation Unit on wall mount connected via cable)

#### Housing (Depends on Product & Type)

RB : Cast Aluminium, weatherproof, powder-coated, IP65 (I)

FP2A : Cast Aluminium, weather & flameproof, IEC 60079-1 Ex 'd', powder-coated suitable for gas group IIA & IIB as per IS 2148 (I)

FP2C : Cast Aluminium, weather & flameproof, IEC 60079-1 Ex 'd', powder-coated suitable for gas group IIC, IP66 (SL)

SNSR : Pressure Die Cast Aluminium, weatherproof, powder-coated, IP66 (SL)

#### Probe Housing Cable Entry

👍 PCB5S : Threaded, G 1/2" (BSP), SC gland, Brass (Ni plated)

PCB5D : Threaded, G 1/2" (BSP), DC gland, Brass (Ni plated)

👍 PCN5D : Threaded, 1/2" NPT, DC gland, Brass (Ni plated)

#### Separate Housing

SQW : Cast Aluminium, weatherproof, powder-coated (wall-mounted), IP65(SL)

SQWFP : Cast Aluminium, weather & flameproof, IEC 60079-1 Ex 'd', powder-coated, suitable for gas group IIA & IIB as per IS 2148 (wall-mounted)(FP2C)

#### Separate Housing Cable Entry

👍 RCB5S : Threaded, G 1/2" (BSP), SC gland, Brass (Ni plated)

RCB5D : Threaded, G 1/2" (BSP), DC gland, Brass (Ni plated)

👍 RCN5D : Threaded, 1/2" NPT, DC gland, Brass (Ni plated)

#### Output

630 : DPDT Relay (rated at 6A, 230V AC for non inductive load) with Time Delay (SLC\_S)

722 : DPDT Relay (rated at 6A, 230V AC for non inductive load) with pump control logic (SLC\_S)

822 : Two point independent SPDT Relay (rated at 6A, 230V AC for non inductive load)

OR

One SPDT Relay (rated at 6A, 230V AC for non inductive load) and One Pump Control Logic (SLC\_T)

922 : Two point independent SPDT Relay (rated at 6A, 230V AC for non inductive load) and One Pump Control Logic

OR

Three point independent SPDT Relay (rated at 6A, 230V AC for non inductive load) (SLC\_T)

#### Power Supply

U : Universal (18 to 55V DC and 90 to 265V AC, 50Hz) on the same terminals(SLC\_S)

AU : 90 To 260V AC, 50Hz (SLC\_T)

DC : 24V DC (SLC\_T)

#### Reference(Optional) (Grounding)

REF : YES(A 6mm Rod)

RHA : Hastelloy C276 (HDPE/Surface Coated Flange)

STWGI : Still Well, GI

STWS4 : Still Well, SS 304

STWS6 : Still Well, SS 316

**Probe Type**

RDP : Rod Probe

ROP : Rope Probe

**Rope Type (ROP)**R4S4C :  $\varnothing 4$  Wire Rope, SS 304, PTFE Wrapped (F)R8S4 :  $\varnothing 8$  Wire Rope, SS 304 (P & REF)R8GI :  $\varnothing 8$  Wire Rope, GI (Galvanized Iron) (P & REF)R8GIJ :  $\varnothing 8$  Wire Rope, GI (Galvanized Iron), PTFE Jacketed (P & REF)R8S4J :  $\varnothing 8$  Wire Rope, SS 304, PTFE Jacketed (P & REF)**Mounting**MB5S6 : Threaded, G  $\frac{1}{2}$ " (BSP), SS 316 (RDP, REF & Grounding)MN5S6 : Threaded, NPT  $\frac{1}{2}$ ", SS 316 (RDP, REF & Grounding)MB7S6 : Threaded, G  $\frac{3}{4}$ " (BSP), SS 316 (RDP, REF & Grounding)MN7S6 : Threaded, NPT  $\frac{3}{4}$ ", SS 316 (RDP, REF & Grounding)

MB10MS : Threaded, G 1" (BSP), MS Plated (RDP &amp; REF)

MN10MS : Threaded, NPT 1", MS Plated (RDP &amp; REF)

MB10S4 : Threaded, G 1" (BSP), SS 304 (RDP &amp; REF)

MN10S4 : Threaded, NPT 1", SS 304 (RDP &amp; REF)

MB10S6 : Threaded, G 1" (BSP), SS 316 (RDP &amp; REF)

MN10S6 : Threaded, NPT 1", SS 316 (RDP &amp; REF)

MB15MS : Threaded, G  $1\frac{1}{2}$ " (BSP), MS PlatedMN15MS : Threaded, NPT  $1\frac{1}{2}$ ", MS PlatedMB15S4 : Threaded, G  $1\frac{1}{2}$ " (BSP), SS 304MN15S4 : Threaded, NPT  $1\frac{1}{2}$ ", SS 304MB15S6 : Threaded, G  $1\frac{1}{2}$ " (BSP), SS 316MN15S6 : Threaded, NPT  $1\frac{1}{2}$ ", SS 316F15S4 : 10 mm thick Flange conforming to  $1\frac{1}{2}$ " ANSI/ASME B16.5 Flange, SS 304F15S6 : 10 mm thick Flange conforming to  $1\frac{1}{2}$ " ANSI/ASME B16.5 Flange, SS 316FA15MS :  $1\frac{1}{2}$ " ANSI/ASME B16.5 150 Lbs Flange, MS PlatedFA15S4 :  $1\frac{1}{2}$ " ANSI/ASME B16.5 150 Lbs Flange, SS 304FA15S6 :  $1\frac{1}{2}$ " ANSI/ASME B16.5 150 Lbs Flange, SS 316

F20MS : 10 mm thick Flange conforming to 2" ANSI/ASME B16.5 Flange, MS Plated

F20S4 : 10 mm thick Flange conforming to 2" ANSI/ASME B16.5 Flange, SS 304

F20S6 : 10 mm thick Flange conforming to 2" ANSI/ASME B16.5 Flange, SS 316

FA20MS : 2" ANSI/ASME B16.5 150 Lbs Flange, MS Plated

FA20S4 : 2" ANSI/ASME B16.5 150 Lbs Flange, SS 304

FA20S6 : 2" ANSI/ASME B16.5 150 Lbs Flange, SS 316

F25MS : 10 mm thick Flange conforming to  $2\frac{1}{2}$ " ANSI/ASME B16.5 Flange, MS PlatedF25S4 : 10 mm thick Flange conforming to  $2\frac{1}{2}$ " ANSI/ASME B16.5 Flange, SS 304

**Mounting**

F25S6 : 10 mm thick Flange conforming to 2½" ANSI/ASME B16.5 Flange, SS 316

FA25MS : 2½" ANSI/ASME B16.5 150 Lbs Flange, MS Plated

FA25S4 : 2½" ANSI/ASME B16.5 150 Lbs Flange, SS 304

FA25S6 : 2½" ANSI/ASME B16.5 150 Lbs Flange, SS 316

F30MS : 10 mm thick Flange conforming to 3" ANSI/ASME B16.5 Flange, MS Plated

F30S4 : 10 mm thick Flange conforming to 3" ANSI/ASME B16.5 Flange, SS 304

F30S6 : 10 mm thick Flange conforming to 3" ANSI/ASME B16.5 Flange, SS 316

FA30MS : 3" ANSI/ASME B16.5 150 Lbs Flange, MS Plated

FA30S4 : 3" ANSI/ASME B16.5 150 Lbs Flange, SS 304

FA30S6 : 3" ANSI/ASME B16.5 150 Lbs Flange, SS 316

FA15H : Flange dimensions conforming to 1½" ANSI/ASME B16.5 Flange, HDPE (8T)

FA20H : Flange dimensions conforming to 2" ANSI/ASME B16.5 Flange, HDPE (8T)

FA25H : Flange dimensions conforming to 2½" ANSI/ASME B16.5 Flange, HDPE (8T)

FA30H : Flange dimensions conforming to 3" ANSI/ASME B16.5 Flange, HDPE (8T)

**Insulation type**

P : Partly Insulated, PTFE

F : Fully Insulated, PTFE

C : Ceramic(35T, REF)

**Sense (RDP)**

👍 SS4 : SS 304

SS6 : SS 316

**Rope Weight (ROP)**

RWMS : MS Plated

👍 RWS4 : SS 304

RWS6 : SS 316

**Grounding (REF)**

GLGI : Galvanized Iron

👍 GLS4 : SS 304

GLS6 : SS 316

**Operating Temperature**

8T : Up to 80 °C

10T : Up to 100 °C

25T : Up to 250 °C

35T : Up to 350 °C

**Standoff Material (8T, 10T)**

STGI : GI (Galvanized Iron)

👍 STS4 : SS 304

STS6 : SS 316

**Probe Length**

1H15H : 100 to 1500 mm (RDP &amp; 1/2" Thread)

1H30H : 100 to 3000 mm (RDP &amp; 1/2" Thread)

2H30H : 200 to 3000 mm (Grounding)

5H100H : 500 to 10000 mm (ø4mm Rope)

10H200H : 1000 to 20000 mm (ø8mm Rope)

Example -

SLC\_S-I-RB-PCB5S-630-U-RDP-MB5S6-F-SS4-10T-1H15H

**👍 Shows First Priority Entity**

- Applicable
- Not Applicable