SC750 Capacitive Point Level Detection

Level Detection for liquids and solids
Ajustment of Sensibility
Power Supply: 24Vcc / 85...240Vca
Output: 1 SPDT / 1NO + 1NC

The SC750 Capacitance Level Switches are ideal for High/Low level detection for liquid, solids, granular materials and pastes. These units can also detect level without being in contact with the product through a sight glass. Unlike other capacitance probes, the SC750 Series can detect conductive, non-conductive or low dielectric materials with extremely accurate performance without requiring an external reference or installation in a metal vessel.

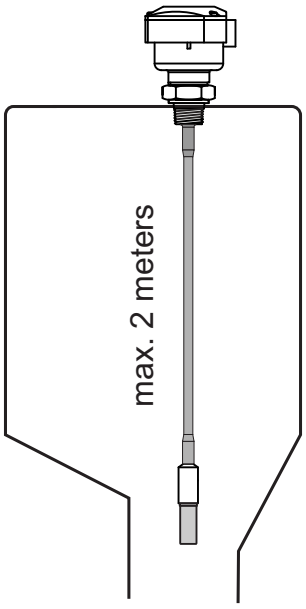
The SC750 is also designed for level detection in large depths and in media with vortex agitation, it can be made with cable (to depths up to 2 meters) or rod rigid stainless steel (up to 2 meters) giving more flexibility to complex applications, where it is impractical to use standard Capacitive Probes.

Available in, 24Vdc and 85...240Vac, with electronics incorporated in the housing, the SC750 is one of the most versatile and compact probes that exist. It has a relay output (SPDT), sensitivity adjustment and time delay (adjustable from 0.1 to 20 seconds), allowing it to be used in almost any type of product.

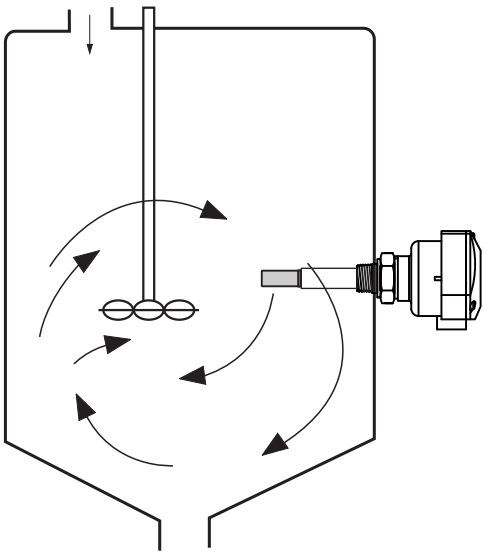
Available in rigid rod or cable. The SC750´s connection is made with 316 Stainless Steel and the sensor tip is made in PTFE. This model is also offered in a wide variety of threaded, flange or sanitary connections.

Application

Low level detection



Detection with turbulence



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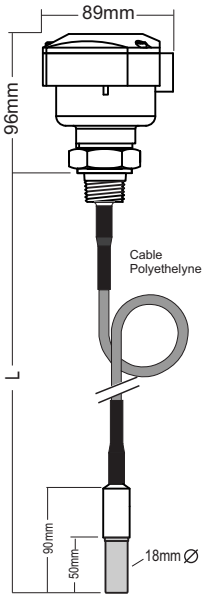
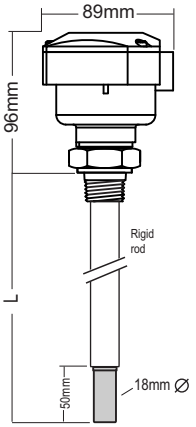
Fax (800)5161656 www.sitron.com

Dimensions & Features
SC750

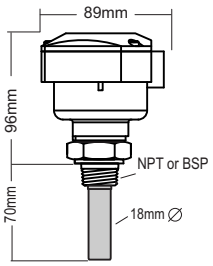
Cable



Rigid Rod



Standard

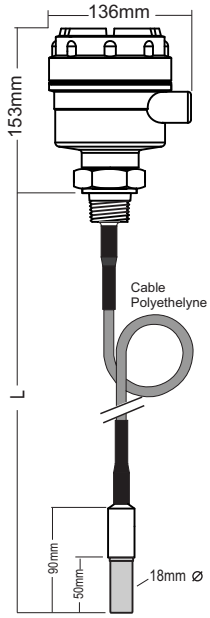


L: Insertion length

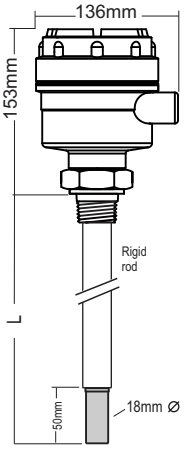
SC750-X-X-X-X-N1

Application: Level detection for liquids and solids
Power Suplly: 24Vcc (± 10%)
Consumption: 2VA
Output: Relay (1SPDT) 5A-250Vac
Adjust: Sensibility
Time Delay: 0,1 to 20 seconds
Oscillation Frequency: 5MHz
Housing: N1 Nylon w/ Fiberglass
Electrical Connection: Cable Gland 1/2"NPT or BSP
Process Connection: 3/4" to 1 ½"BSP, NPT
flange or sanitary connections
Body Material: Polythelyne cable, 316SS
Sensor Material: PTFE
Work Temperature: -10 a + 80°C
Max. Pressure: 10 Bar
Class Protection: IP 65

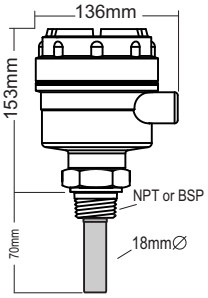
Cable



Rigid Rod



Standard

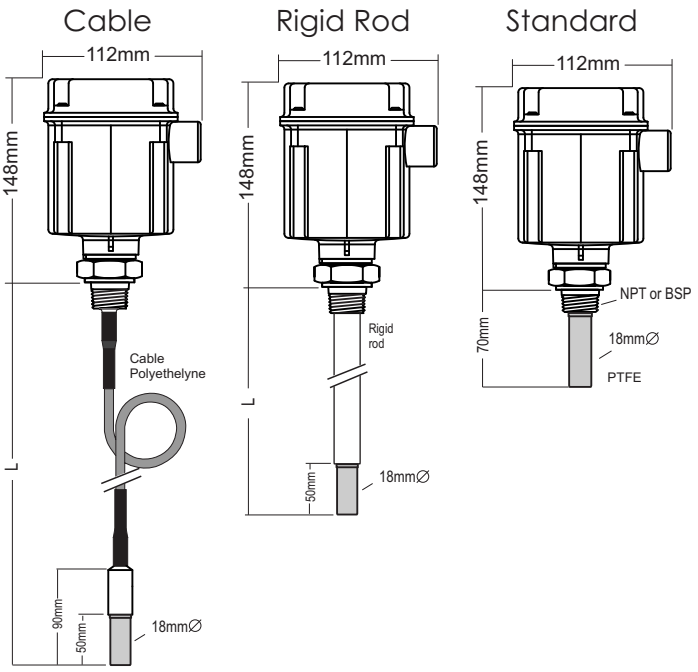


L: Insertion length

SC750-X-X-X-X-G2

Application: Level detection for liquids and solids
Power Suplly: DC:24Vcc (± 10%)
AC: 85...240Vac
Consumption: 4VA
Output: Relay (NO + NC) 5A-250Vac
Adjust: Sensibility
Time Delay: 0,1 to 20 seconds
Oscillation Frequency: 5MHz
Housing: G2 Aluminum or N2 Nylon
Electrical Connection: Cable Gland 1/2"NPT or BSP
Process Connection: 3/4" to 1 ½"BSP, NPT
flange or sanitary connections
Body Material: Polyethelyne cable, 316SS
Sensor Material: PTFE
Work Temperature: -10 a + 80°C
Max. Pressure: 10 Bar
Class Protection: IP 65

Dimensions & Electrical connections

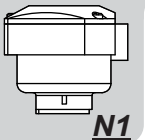


L: Insertion length

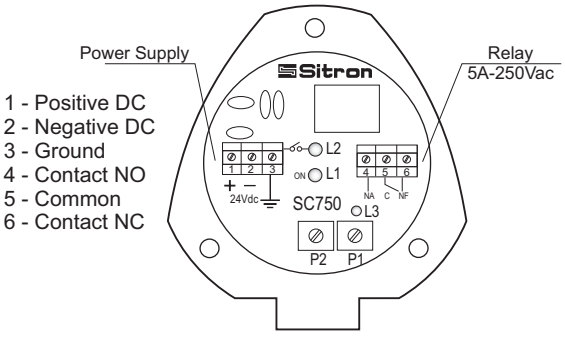
SC750-X-X-X-X-N2

Application: Level detection for liquids and solids
Power Suplly: DC:24Vcc (± 10%)
AC: 85...240Vac
Consumption: 4VA
Output: Relay (NO + NC) 5A-250Vac
Adjust: Sensibility
Time Delay: 0,1 to 20 seconds
Oscillation Frequency: 5MHz
Housing: N2 Nylon
Electrical Connection: Cable Gland 1/2"NPT
Process Connection: 3/4" to 1 ½"BSP, NPT
flange or sanitary connections
Body Material: Polythelyne cable, 316SS
Sensor Material: PTFE
Work Temperature: -10 a + 80°C
Max. Pressure: 10 Bar
Class Protection: IP 65

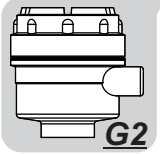
Electrical Connections

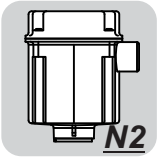


SC750
N1 Housing

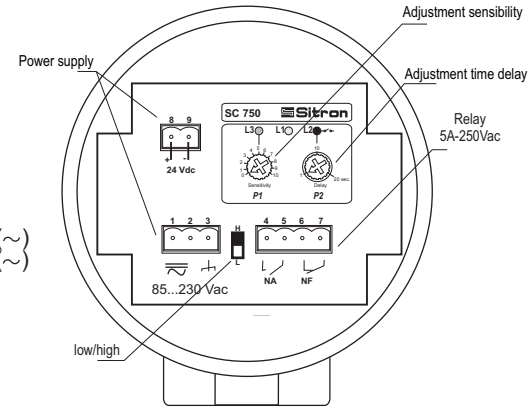


L1 - ON (Green)
L2 - Output state (Red)
L3 - Sensor state (Yellow)
P1 - Sensibility Adjustment
P2 - Time delay Adjustment





SC750U
N2 and G2 Housing

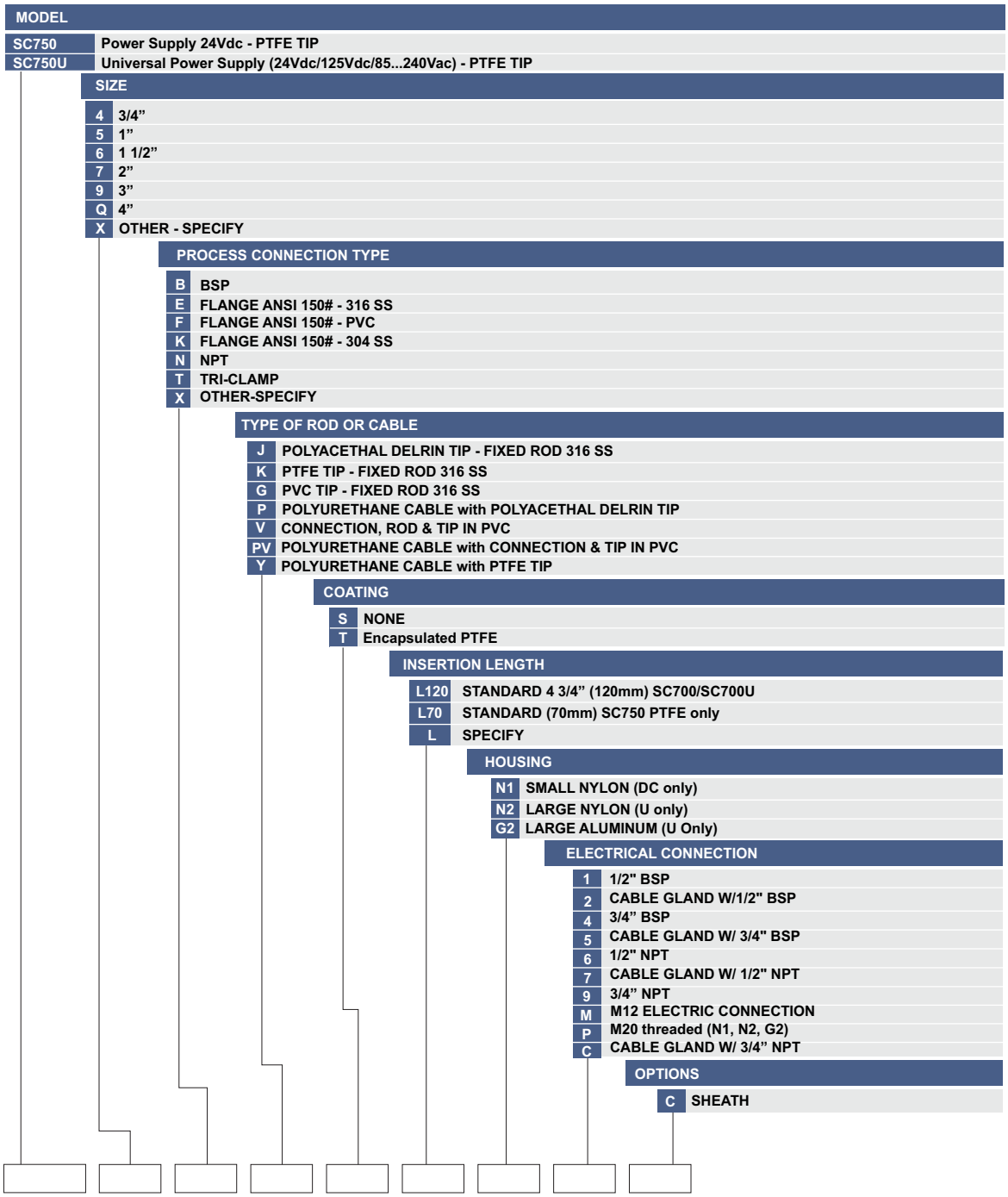


1 - Power supply (~)
2 - Power suplly (~)
3 - Ground
4 - Common
5 - Contact NO
6 - Common
7 - Contact NC

8 - Positive DC
9 - Negative DC

L1 - ON (Green)
L2 - Output state (Red)
L3 - Sensor state (Yellow)
P1 - Sensibility Adjustment
P2 - Time delay Adjustment

Ordering Information



NOTES:
SC750: Supply Voltage 24 Vdc
SC750U - UNIVERSAL POWER SUPPLY 85 to 240VAC OR 24VDC (Available in the Large Nylon or Aluminum Housing Only)
Triclamp connections start at 1 1/2"
SC750 should only be used on products with a Low Dielectric Constant.
SC700/SC750 will not work with mediums with High Dielectrics such as Maionese or Shampoo with high salt content.