



The Sensorex TCS series toroidal (inductive) conductivity sensors feature wide measurement ranges and dependable toroidal technology over the range 0-2000 ms/cm. Resistant to corrosion, coatings, and fouling common to contacting conductivity sensors, the TCS series is designed for a long and trouble-free service life.

Noryl material of construction has a wide solvent tolerance and temperature stability to 105 degrees C. All models can be submersed by utilizing the 3/4" MNPT threads on the sensor or installed inline using the FC95C flow cell. A Pt 1000 RTD temperature element is built into the TCS sensor. All TCS sensor models are supplied with 10 or 20 ft long 4-conductor cable. Custom lengths are available.

## TCS3020 TOROIDAL CONDUCTIVITY SENSOR GENERAL PURPOSE, NORYL BODY SENSOR PRODUCT SPECIFICATION SHEET

Noryl body resists coating, corrosion and fouling in many common applications

Threaded 3/4" NPT for submersion mounting;  
Flange for inline mounting (order flow cell separately)

## TYPICAL APPLICATIONS

Cooling tower water monitoring

Acid or base dilution in chemical manufacturing

Percent Concentration control

Brine control for road deicing

## SPECIFICATIONS

Measuring Range	150-2,000,000 uS/cm
Body Material	Noryl
Temperature Range	-25°C to 105°C
Max Pressure	150 psig
Temperature Compensation	Pt 1000 RTD, Pt100 RTD
Cable Length	4 conductor in standard 10ft(3m) or 20ft (6m) length; custom lengths available on request.
Process Connection	3/4" MNPT

Products covered by this spec sheet: TCS3020 sensors

SpecsTCS3020-02162024

### SENSOREX CORPORATION

11751 MARKON DRIVE • GARDEN GROVE, CA 92841, USA  
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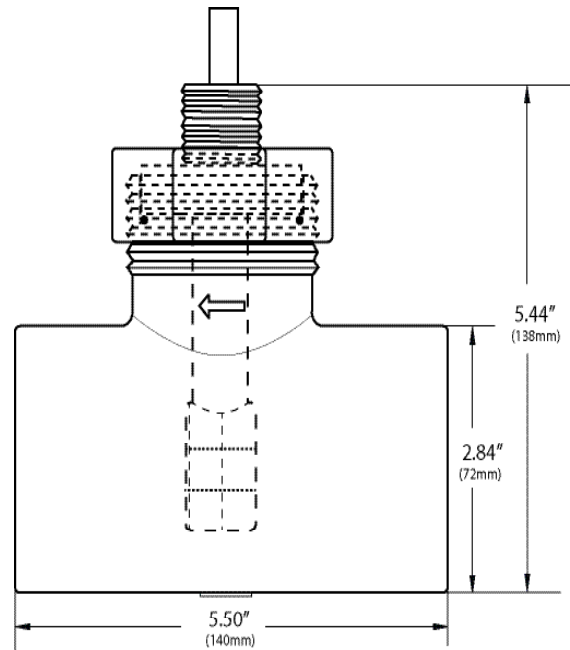
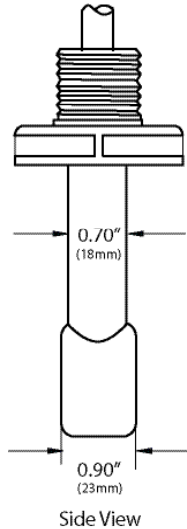
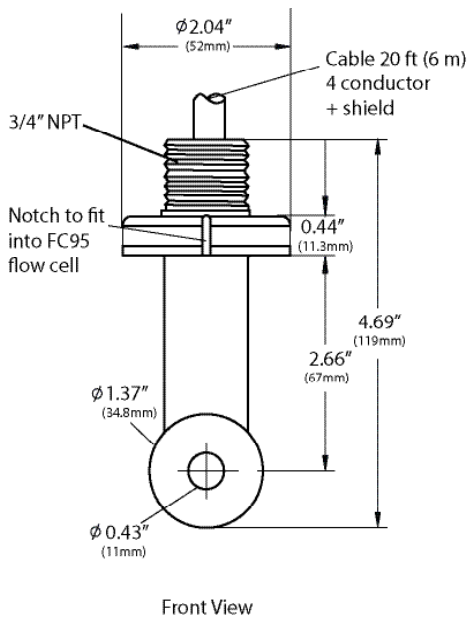
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## TCS3020 DIMENSIONAL VIEWS

### TCS3020

### TCS3020 in FC95C flow cell



## ORDERING INFORMATION

Part Number	Description
TCS3020-P1k-10-TL-TL	Toroidal Conductivity Sensor, Noryl body, Pt1000 RTD , 10ft cable, tinned leads
TCS3020-P1k-20-TL-TL	Toroidal Conductivity Sensor, Noryl body, Pt1000 RTD , 20ft cable, tinned leads
TCS3020-PT1-10-TL-TL	Toroidal Conductivity Sensor, Noryl body, Pt100 RTD, 10ft cable,, tinned leads
TCS3020-PT1-20-TL-TL	Toroidal Conductivity Sensor, Noryl body, Pt100 RTD, 20ft cable,, tinned lead
FC95C	Tee fitting with compression fitting for TC3020 sensors, 2" Sockets for process, CPVC material



Sensorex toroidal sensors provide off the shelf options but are also designed with the OEM in mind. We can provide custom cable lengths, specialized connectors, and even match coil windings / inductance to work with your instrument or system. Contact your Sensorex sales representative or visit our [OEM page](#) (scan code at right).



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