

# TCS3020 SERIES TOROIDAL Conductivity Sensor

## TCS3020 SERIES TOROIDAL



### Digital Communication for More Process Visibility:

- Modbus and 4-20 mA output options now available
- Configuration and calibration can be done using web based software

### Corrosion, Coating and Fouling Resistant

- Noryl body has a wide solvent tolerance and temperature stability to 105 C
- Can be installed in line using the FC95C flow cell or submersed via the 3/4" MNPT threads

### Wide Measurement Range

- Can measure conductivity from 0 - 2,000,000 uS/cm

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 is the standard material of construction and has a wide solvent tolerance and temperature stability to 105 degrees C.\* All Noryl models can be submersed by utilizing the 3/4" MNPT threads on the sensor or installed inline using the FC95C flow cell. ATC element is user specified and built into the TCS sensor. All TCS sensor models are supplied with 20ft long 9-conductor cable. Custom lengths are available. Please contact Sensorex for pricing.

## Specifications

Measuring Range	0-2,000,000 uS/cm
Body Material	Noryl
Max Temperature	105°C (*If used with FC95C flow cell, maximum temperature is 80°C)
Max Pressure	150 psig (70°C Max with MB2 module)
Temperature Compensation	User specified temperature elements, -P1k for TCSMA transmitter, or NTC-30K/PT-1000 for EX2000RS transmitter & modbus versions
Cable Length	20 feet, 6 conductor plus shields
Process Connection	3/4" MNPT for submersion, 2" slip fitting with FC95C flow cell

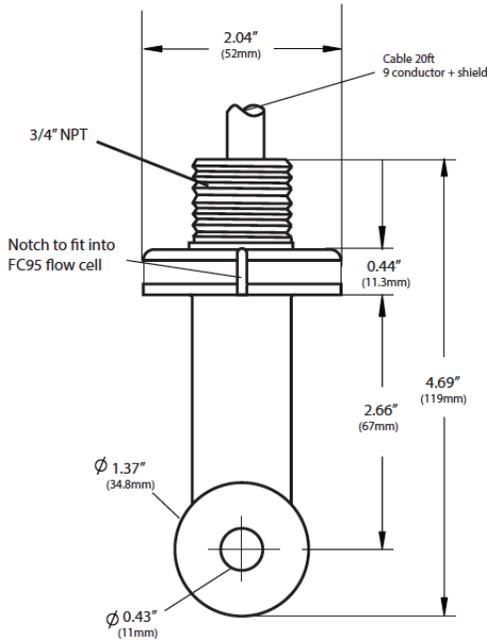
**DESIGNED AND ASSEMBLED IN CALIFORNIA, USA**

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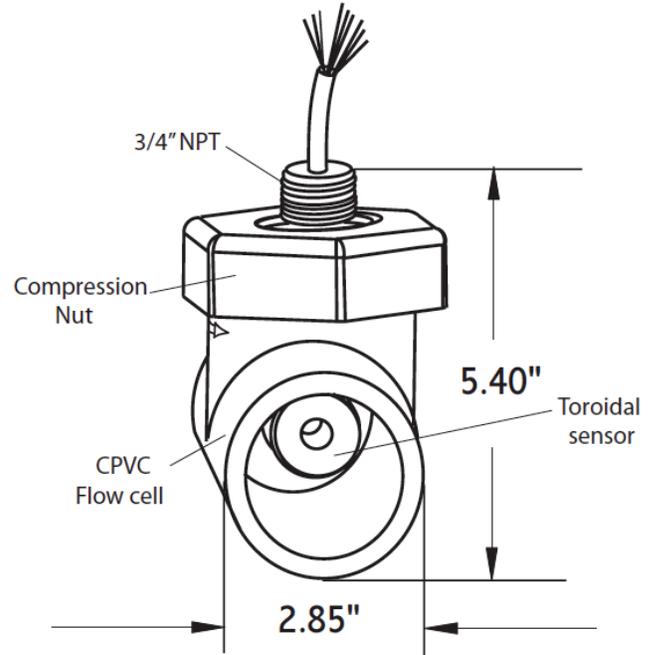
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## Dimensional Views

### TCS3000 and TCS3020



### TCS3020 IN FC95C FLOW CELL



## Ordering Information

Part #	Description
TCS3020/ PIK/20/TL/TL	Noryl Toroidal Sensor with 20-30 windings
TCS3020/ P1K/20/R1/ MB2	24V DC Powered Toroidal sensor with Modbus 485 output, range = 0-100,000 uS/cm
TCS3020/ P1K/20/R2/ MB2	24V DC Powered Toroidal sensor with Modbus 485 output, range = 0-2,000,000 uS/cm
EX2000RS	100-240VAC Powered Toroidal Controller with display, 4-20mA + RS485 outputs <i>(TCS3020 only)</i>
TCSTX	24VDC Powered Toroidal transmitter with display, 4-20mA output <i>(TCS3020 only)</i>
FC95C	2" Keyed Slip Fit Flow Cell
CALBOX	Interface to calibrate, configure, and monitor sensor with a USB connection

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