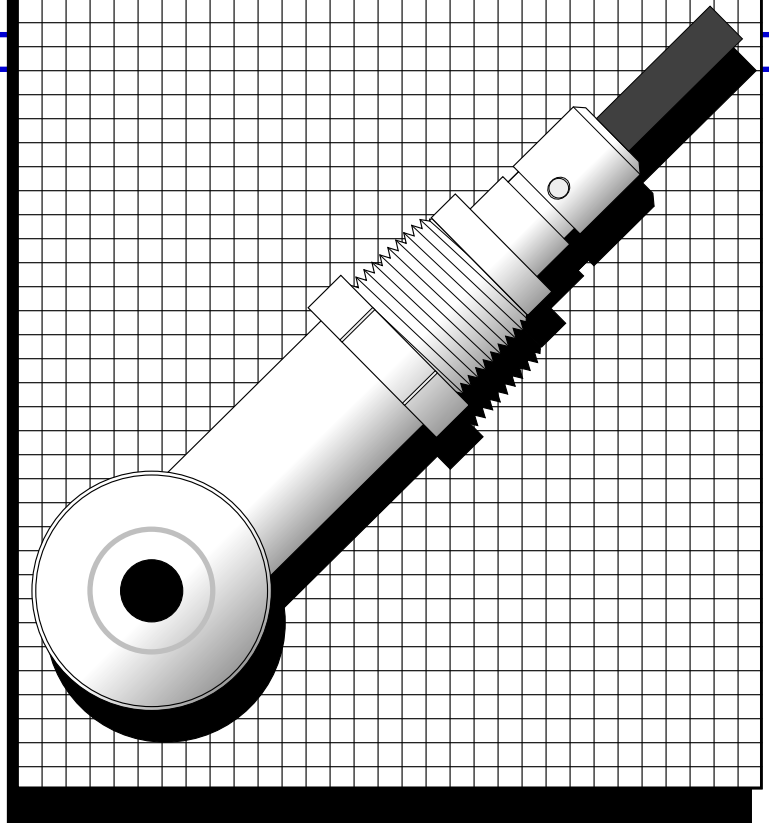




SENSOR DEVELOPMENT, INC.
SANTA ANA, CALIF (714) 836-7090

Model Toroidal CONDUCTIVITY SENSOR

- **No polarization & resists fouling because no electrodes contact the stream.**
- **Highest linear range, works better as conductivity rises.**
- **Lowest maintenance because it is hardly affected by thin non-conductive coatings including oil.**

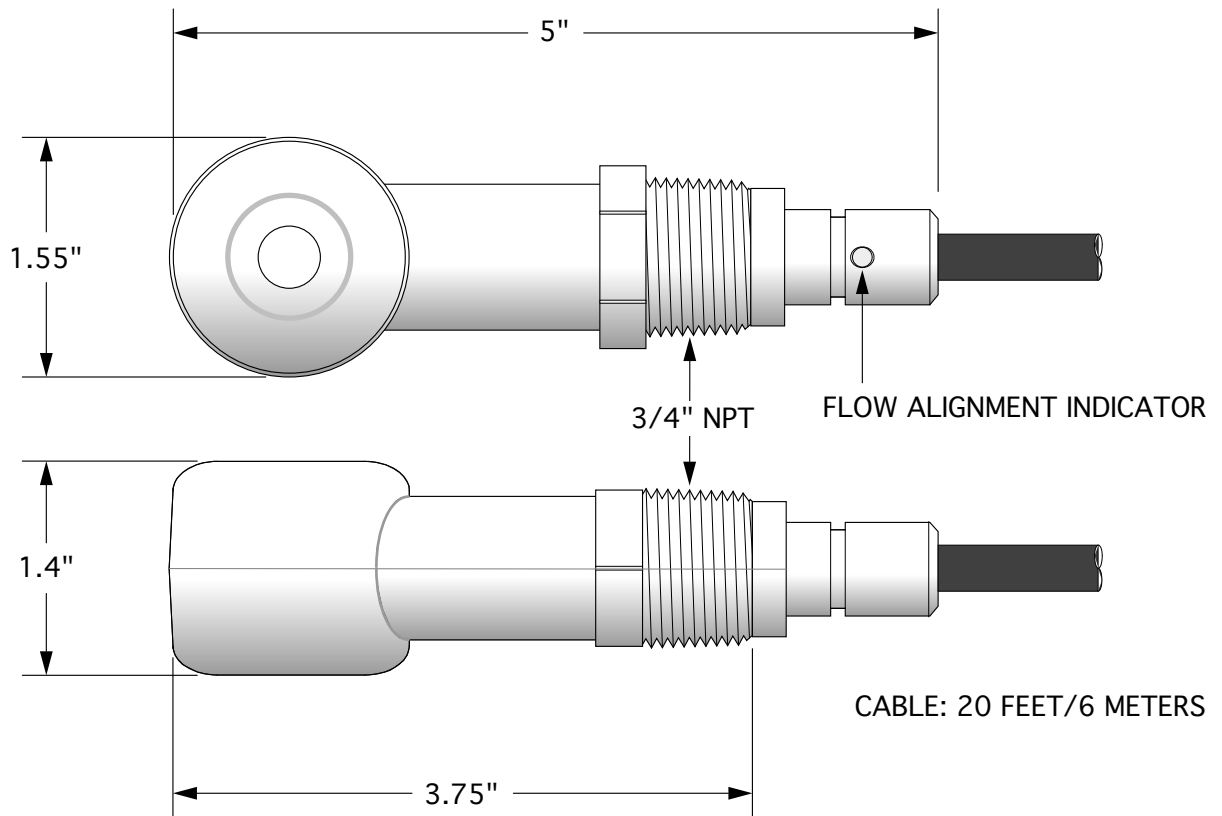


This sensor uses two donut-shaped transformers encased in a plastic body with a hole in the middle so that fluid flows through the center of both transformers and surrounds their sealed housing outside the path.

Application Notes

The drive transformer has an AC voltage applied to its windings that induces an electric current flow in the conductive liquid inside the donut hole, that flow path being completed in the liquid surrounding the sensor tip. This external completion path is why the sensor is sensitive to is surrounds in process.

The current flow in the fluid through the center of both transformer cores induces a current in the sense transformer that varies directly in proportion to changes in the fluid conductivity. That current is detected and displayed as solution conductivity.



SPECIFICATIONS, TORROIDAL CONDUCTIVITY SENSOR

MAX. PRESSURE/TEMP. RATINGS:

Standard Sensor - 200 PSIG at 105°C

CONNECTIONS:

Process - 3/4" MNPT
Electrical - 20ft (6m) cable, stripped and tinned ends

WETTED MATERIALS:

Block Copolymer Polypropylene

CELL CONSTANT:

Nominal 5.0

COMPATIBILITY VERIFIED FOR:

GLI.....E33, E53, E63, PRO 3
 Knick.....2401 Condi, 2402 Condi
 Uniloc.....1181T
 Yokogawa.....ISC202, ISC402
 Mettler-Toledo

TEMPERATURE ELEMENT

Pt1000 RTD



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