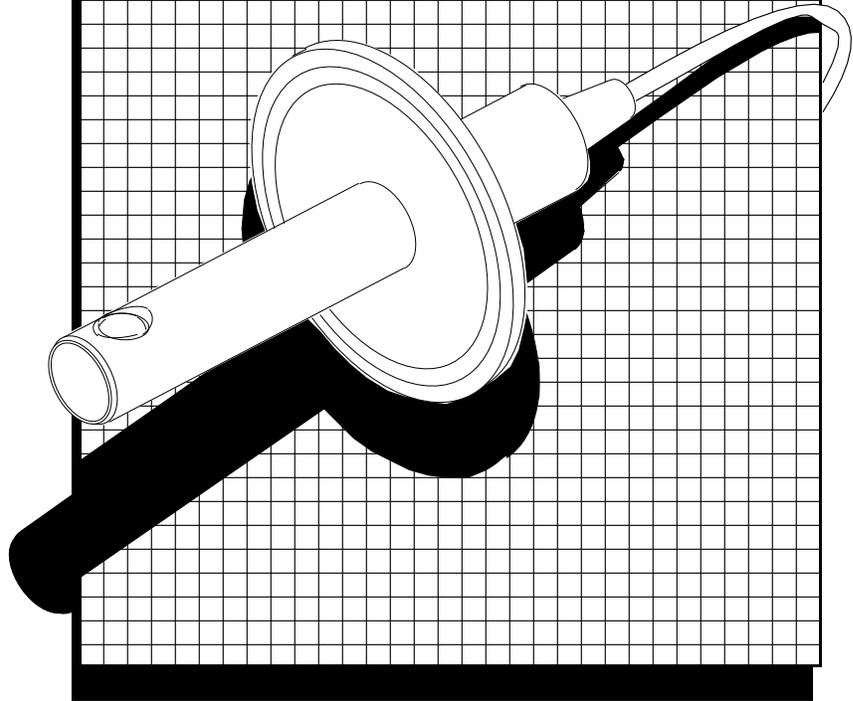




SENSOR DEVELOPMENT, INC.  
SANTA ANA, CALIF (714) 836-7090

## Model CSxx-TRI CONDUCTIVITY SENSOR

- **Designed for insertion into Ladish or Tri-Clover fittings.**
- **O-ring seals used on all versions for high on-stream reliability.**
- **Steam Sterilizable**

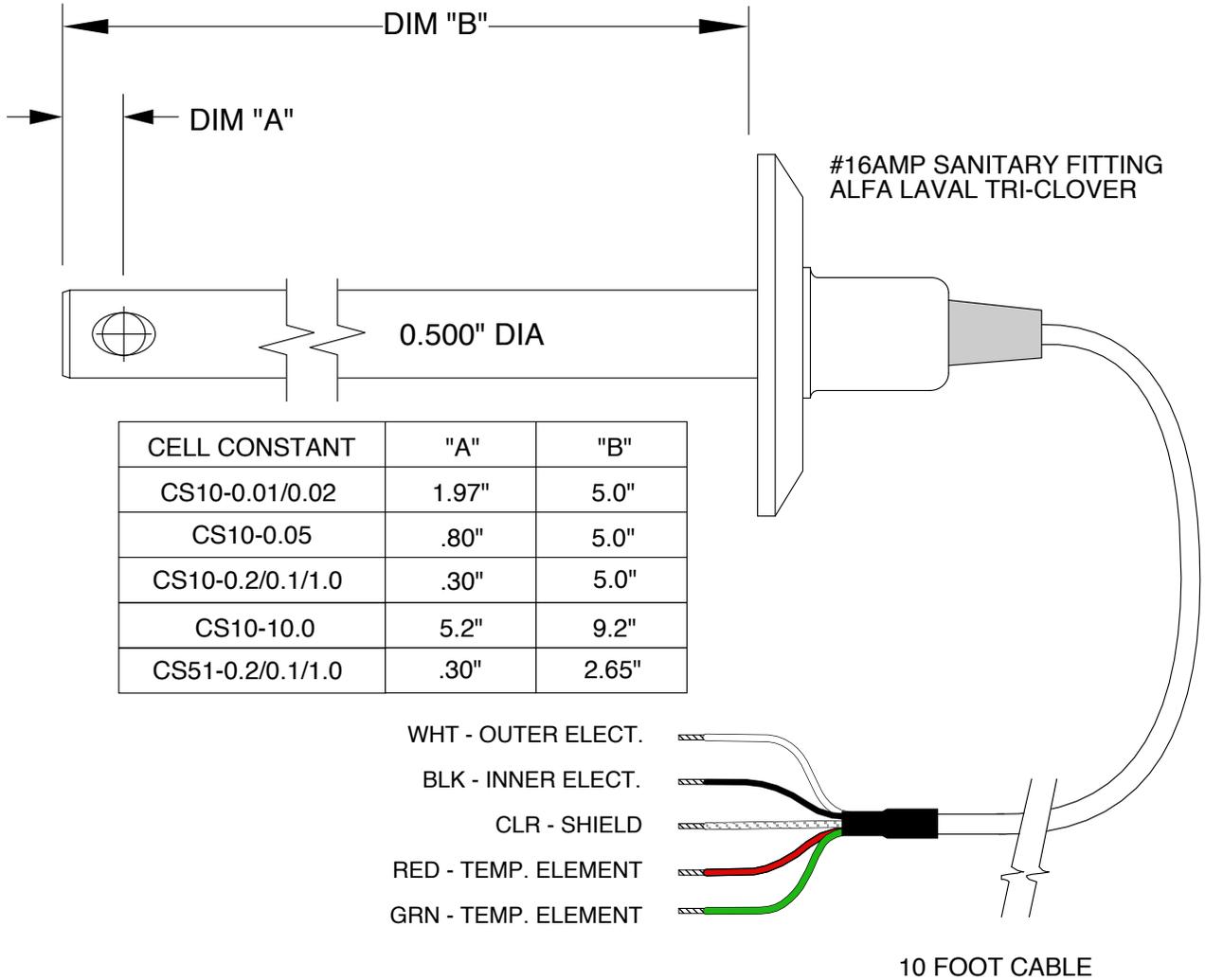


The CS10, CS51 sensors are welded to blind flanges of customer specified size, and can then be inserted into standard tee fittings in sanitary systems using Ladish or Tri-Clover fittings.

### **Physical Description**

Wetted materials of construction are 316L stainless steel and Teflon, with double redundant EPDM o-rings. The process side o-ring is the only one in contact with the stream, allowing the back o-ring to maintain reliable sealing, free from chemical attack. TC elements are potted in the body itself. Leads are 10' standard.

Process connections are Tri-Clamp sanitary flanges of customer specified size. The insertion depth can be modified on request to obtain proper positioning in a specific installation. The sensor is built for clean in place service, either steam or sterilizing chemicals. All wetted materials are FDA compliant, and USP Class VI is available.



## SPECIFICATIONS

### MAX. PRESSURE/TEMP. RATINGS:

100 PSIG at 130°C

### WETTED MATERIALS:

**Insulator** - Teflon  
**O-rings** - EPDM  
**Electrodes** - 316L SS Standard  
**Fitting** - 316L SS  
 All materials are FDA Compliant

### CELL CONSTANT:

**CS10** - 0.2/0.1/0.05/0.02/0.01  
**CS51** - 0.2/0.1/1.0

### CONNECTIONS:

Sanitary Flange 1/2" to 2-1/2"

**Electrical** - 24 gauge stripped and tinned ends

### TEMPERATURE ELEMENT:

10KΩ@25°C/32.66KΩ@0°C NTC is standard.  
 Available options include Pt1000, Pt100, 3K  
 BALCO, 8.55K NTC, Ni100 and many others.  
 Reference the make and model of instrument for  
 assistance in selecting the right element.



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