SAL | Sanitary Autoclave Load

Specifications

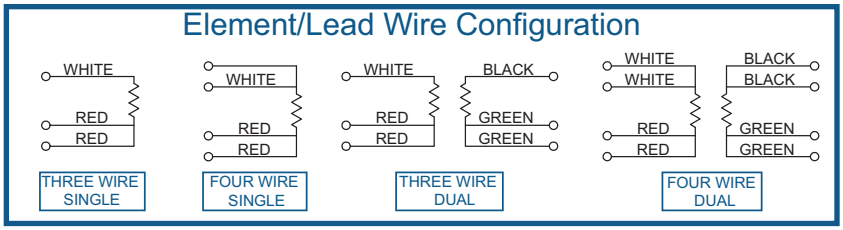
Originally designed for the pharmaceutical and biotechnology world; the SAL's waterproof design extends from the sheath through the sealed transitions to the extruded lead wires preventing capillary action during pressure cycling, which can force water into the cable jacket and up into the sensor causing premature failure. Built to withstand the harsh, repeated steam/vacuum cycling of the autoclave process in a compact 0.125" sheath design makes this an ideal choice for use in load monitoring applications such as vials and sample cells.

Features and Benefits:

- Application: Load probe
- Accuracy: Standard or precision
- Sheath: 316 stainless steel in 0.125" diameter; straight or 90° bend; sharp or rounded tip
- Element/Lead Wire Configuration: Single 3 or 4 wire and dual 3 or 4 wire
- Cable: Teflon® insulated wires in highly flexible round silicone rubber jacket
- Through-Wall Installation: Designed for elastomer compression fitting, round cable design optimizes sealing of the compression fitting (vs. twisted wire cable)
- Cleanability: 316 stainless steel sheath and silicone cable construction

Specifications:

- Element Configuration: Single and dual element, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- Temperature Range: -40°C to 135°C
- Transition Fitting and Cable Temperature Limits: -40°C to 135°C continuous
- R0 Interchangeability: R0 ±0.10 ohms or R0 ±0.05 ohms
- Short-Term Repeatability and Hysteresis: ±0.025°C (0.01 ohms) maximum change at 0°C over any 5 consecutive thermal cycles from 0°C to 135°C
- Repeatability: ±0.05°C (0.02 ohms) maximum shift at 0°C after 20 cycles between 21°C and 135°C
- Stability: ±0.05°C (0.02 ohms) maximum shift at 0°C after 1000 hours at 135°C
- Pressure: 1 psia to 35 psia
- Insulation Resistance: 500 megohms minimum at 100 VDC at room temperature



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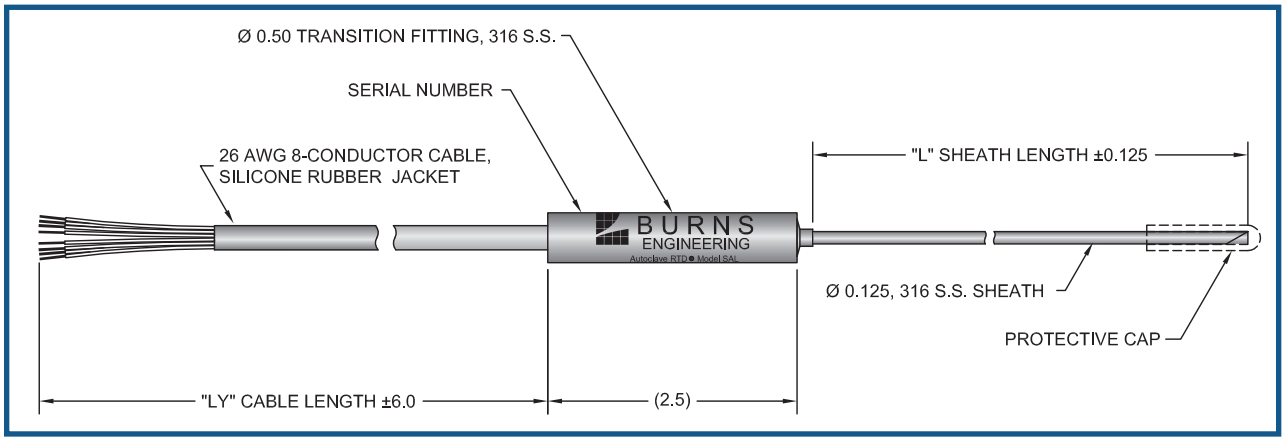
Ordering Information



All dimensions in inches

Accuracy options

-10 Standard RTD +/-0.10% of resistance at 0 degress C
-05 Precision RTD +/-0.05% of resistance at 0 degrees C

Element / Wire Configuration

A *Three wire single element
B Four wire single element
C *Three wire dual element
D Four wire dual element

"L" Sensor Sheath Length, 3.5 inch minimum, 7.0 inch maximim

035 3.5 inches minimum
045 4.5 inch sheath length
060 6.0 inch sheath length
070 7.0 inch sheath length
Specify sheath length in inches, 0.5 inch increments, (3.5 min., 7.0 max.)

Tip Configuration (see detail below)

S Sharp tip
R Rounded tip

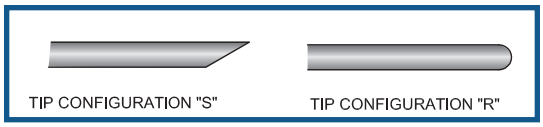
90 Degree Bend Option

S Straight - no bend
B 90 degree bend - see detail below

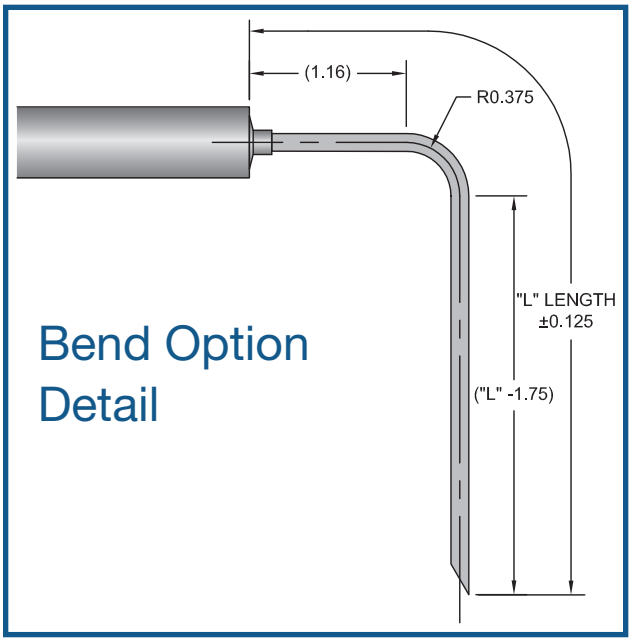
"LY" Cable Length

060 60.0 inch cable length
120 120.0 inch cable length
180 180.0 inch cable length
Specify cable length in inches, 12 inch increments

SAL | | | | | | |



* **For all Three Wire sensors** – please specify ***actual "installed" cable length*** as certain lengths cannot be shortened upon installation without impacting sensor accuracy. Visit burnsengineering.com and type in keyword: SAC, SAL, SAH or SAX for the specification drawing with cable length criteria; or contact Burns Customer Service for more information.



Bend Option Detail

All dimensions in inches