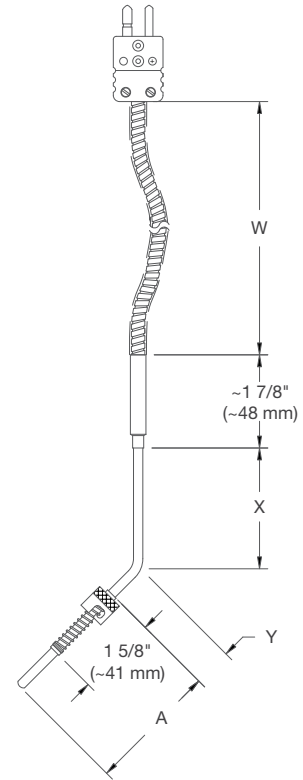


TC53 Bayonet Thermocouple Sensor

TC53 series thermocouple sensors are a quick, effective and inexpensive method of mounting a thermocouple into a housing or recess. The spring loaded sensor is inserted into a mating adapter and is secured by a slotted bayonet cap. Locating pin(s) on the adapter hold the bayonet cap and sensor in place. The push and twist mechanism allows for fast and easy installation or removal.

Three styles of bayonet sensor are available including fixed spring loading, adjustable spring loading, and variable depth.

- **The Fixed** design has a spring located below the bayonet cap and in a stationary position. This style is used when an insertion length into a process or onto a surface has a known dimension. The extension from the tubing or mi-cable can be with double insulated thermocouple wiring, with or without a stainless steel flexible armour protection.
- **The Adjustable spring loaded** design has a spring fitted over the thermocouple and fixed to the wall of the sheath or end cap. The spring length is dependent on the amount of adjustment required. The bayonet cap can then be rotated on the spring to allow for adjustment of insertion lengths. This design can also have thermocouple wiring with double insulation, with or without the flexible armour protection.
- **The Variable Depth** design has adjustment over the complete length of the sensor. It is constructed with a small capped tip and has a flexible interlocking stainless steel armour attachment. The bayonet cap is designed to rotate on the flexible armour to whatever the length of the flex armour might be. The spiral wound interlocking flex armour has a spring loading action when a compressive force is applied.

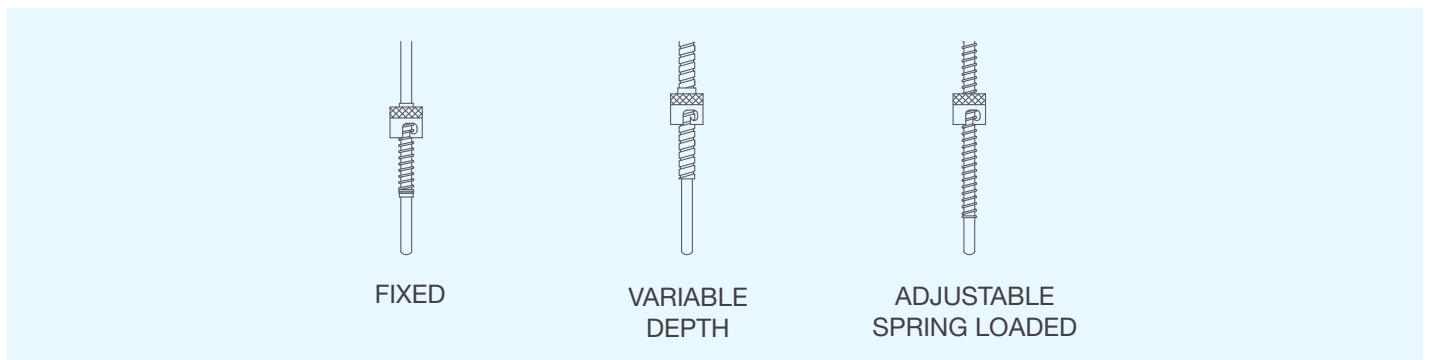


Applications:

TC53 series bayonet sensors are suitable for:

- Air-conditioning and refrigeration systems
- Chemical and petrochemical industries
- Energy and power plant technology
- Machinery, plant and tank measurement
- Oil and gas industries
- Pipeline control
- Plastics and rubber industries
- Power and utilities
- Pulp and paper
- Water and wastewater treatment

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