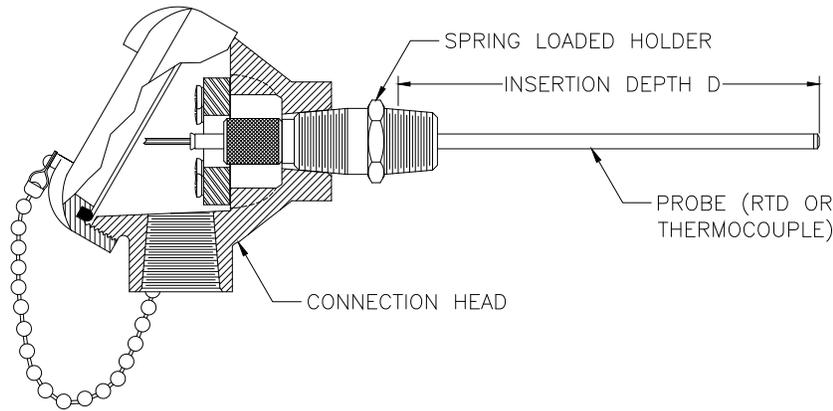


Instructions: Spring-Loaded Sensor Assemblies

Document 1444237 Rev. B

(Supersedes SPI 00-0252, Form 911217)

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1. Installation Instructions

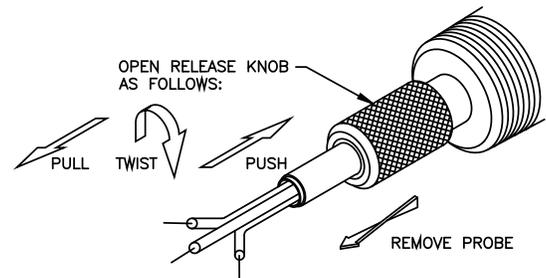
1. Remove connection head

Unscrew the connection head from the spring-loaded holder. The connection head is hand tight – loosening it should not require tools.

2. Open release knob

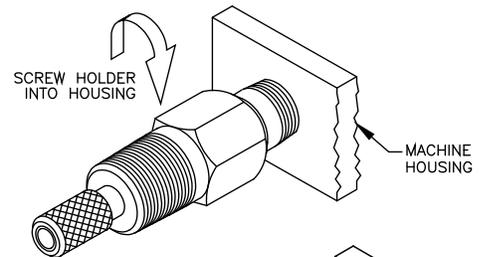
Grasp release knob, pull it out, and twist approximately ½ turn clockwise against the stop. Push in to lock open. If there is a probe in the holder, remove probe from holder by slowly rotating the case clockwise while pulling on the probe case.

CAUTION: Do not pull on probe leadwires.



3. Thread holder into housing

Place Teflon tape or thread sealant on process thread of spring-loaded holder. Install the spring-loaded holder into a female thread in the machine housing, bearing block, thermowell, or fitting. Tighten using an open end or adjustable wrench.

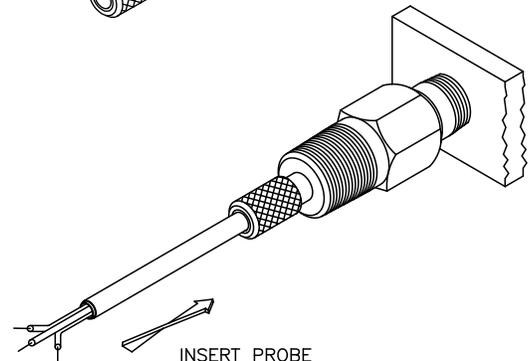


4. Insert probe

Insert the probe, tip end first, through the hole in the release knob of spring-loaded holder. Slowly turn the probe clockwise while pushing probe through holder and O-ring seal, until it contacts the surface to be sensed.

NOTE: If you have problems pushing the probe past the O-ring, add a small amount of silicone oil to the tip of the probe.

CAUTION: Do not insert the probe when the knob is in the closed position.

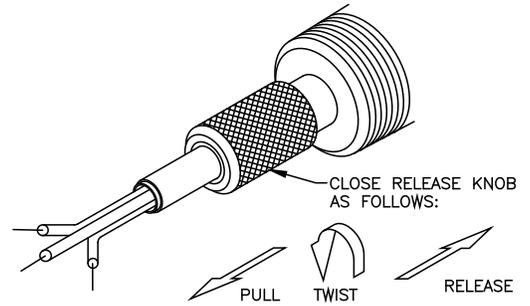


5. Close release knob

Grasp release knob, pull it out, twist approximately 1/2 turn counter-clockwise against the stop and release. The knob will move inward approximately 1/8", locking and applying spring loading force to hold the probe against the surface to be sensed.

NOTE: If the probe is not bearing against a surface, the knob will move fully inward, approximately 1/4".

After installation, probe depth may be adjusted or probe may be removed by opening release knob as in step 2.



6. Attach connection head

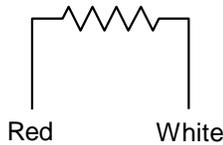
Thread the connection head onto the back of the spring-loaded holder and tighten.

2. Electrical Connections

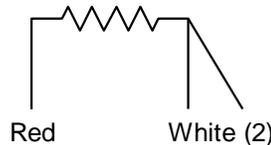
Connect sensor leads to external wiring using terminals or wire nuts. See the specification drawing for probe leadwire color conventions. (Typical examples are shown below.) External wiring and conduit must be in accordance with local electrical codes.

RTDs

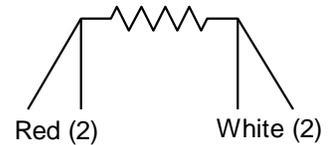
Single Element, 2-Lead



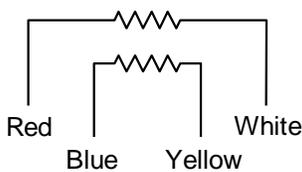
Single Element, 3-Lead



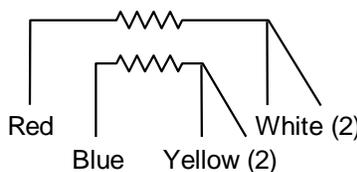
Single Element, 4-Lead



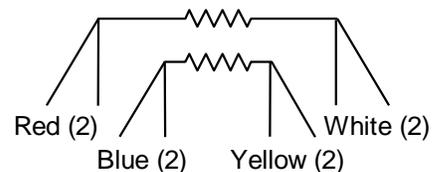
Dual Element, 2-Lead



Dual Element, 3-Lead

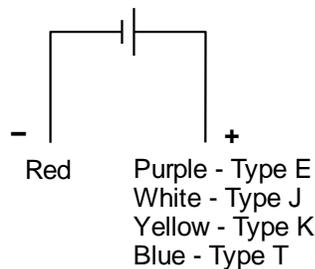


Dual Element, 4-Lead

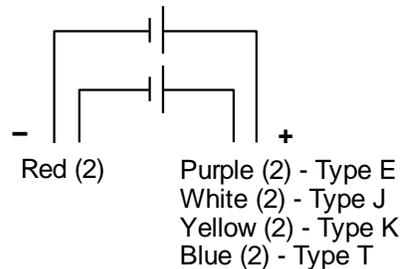


Thermocouples

Single Junction



Dual Junction



Transmitters

Connect sensor and power/signal wires to transmitter terminals as indicated on the transmitter. Make sure to observe polarity for the power/signal wires.