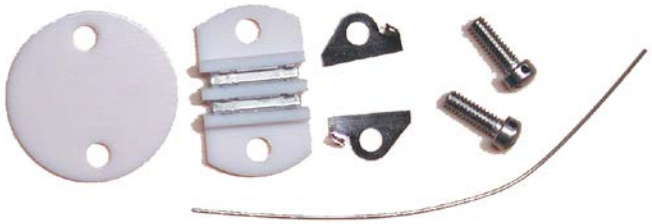
AC190 Terminal Block Mounted on the Bearing Shell

Contents

Contents of the AC190 package:

- Insulating plate
- Thermal block
- Lockplates (2)
- #5-40 mounting screws (2)
- Lockwire



Reference Documents

Install the temperature detector according to the appropriate procedure, as listed below.

Installation Instruction	Case Style	Case Diameter	Method of Installation
II #164 (formerly EI 164)	A	0.275" (7 mm)	Babbitt (Sleeve Bearing)
II #167 (formerly EI 167)	A	0.275" (7 mm)	Babbitt (Thrust Bearing)
II #180 (formerly EI 180)	B	0.188" with 0.250" ϕ flange (4,75 mm with 6,35 mm ϕ flange)	Babbitt (Thrust Bearing)
II #181 (formerly EI 181)	B	0.188" with 0.250" ϕ flange (4,75 mm with 6,35 mm ϕ flange)	Spring and Ring
II #184 (formerly EI 184)	C & D	0.125" & 0.080" (3,20 mm & 2,05 mm)	Potting

Procedure

Follow the procedure below to mount the AC190 Terminal Block on the bearing shell. This procedure is adaptable to other types of bearings and to equipment other than bearings.

Step	Action
1	Counterbore a 1.000" + .010"/-.000" diameter hole, 0.250" deep, in the bearing shell surface at the desired location. Locate the terminal block within the leadwire length of the detector being installed.
2	Drill and tap two holes, 0.687" apart and 0.375" deep, on the centerline of the 1" counterbore. Use a No. 39 drill and a #5-40 tap.
3	Place the insulating plate in the counterbored hole. Place the terminal block on top of the insulating plate. Insert each machine screw through a lockplate and terminal block and into the tapped holes.
4	Lock each screw in place by threading lockwire through the screw and lockplate, then twisting the ends of the lockwire together.
5	Connect leadwires to AC 190 Terminal Block. A: Place the stripped and tinned ends of the detector leadwires on the metal terminal strips and crimp the tabs over the leadwires. B: Do the same with the leadwires exiting from the terminal block to the next connection points. C: Solder the leadwires to the terminal strips with 60/40 alloy solder (for use to 360°F (182°C)) or with a higher temperature solder if service conditions require.
6	Lay the leadwires flat in the bottom of the milled groove in the bearing shell. Pot the leadwires in the groove using an epoxy, or other suitable potting compound that is compatible with bearing shell material, temperature and service conditions.

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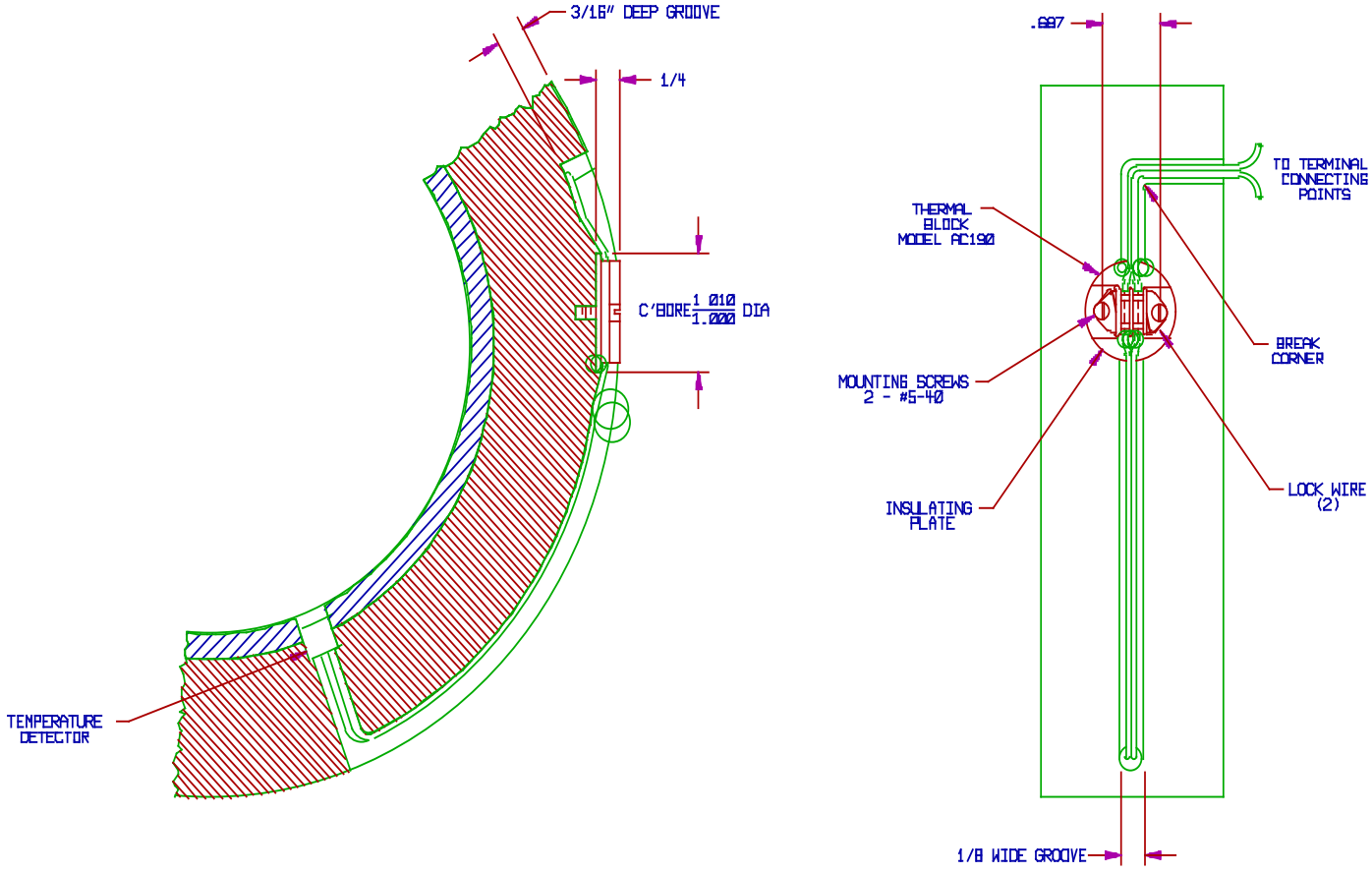
AC190 Terminal Block Mounted on the Bearing Shell, Continued

Drawing

See the drawing below for the suggested installation procedure.



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