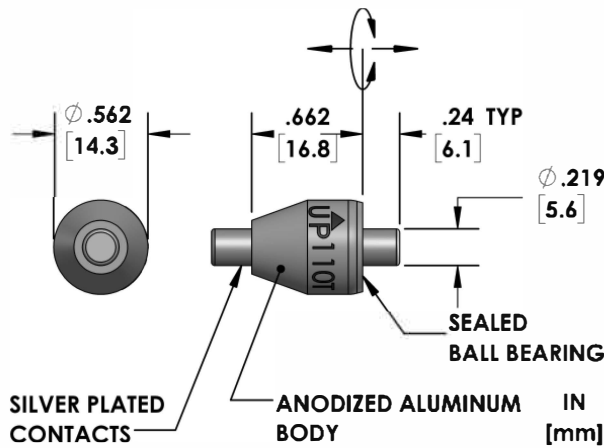


Model 110-T

One Conductor,
10 Amp

Model 105

One Conductor,
4 Amp



Mounts at the end of a rotating axis.
Mount by the press fit receptacle accessory.
Wires attach using the accessory receptacle and cap.

Mercotac models 110-T & 105 are ideal for shaft grounding applications, including HVAC and VFD motor shaft grounding, thus avoiding very costly bearing damage.

Model No.	Terminals	Voltage AC/DC	Max Amp Rating	Max. Freq. MHz	Contact Resistance	Max. RPM	Temp Max. F (C) / Min. F (C)	Rotation Torque (gm-cm)	Circuit Separation
110-T	1	N/A	10	200	<1mΩ	3600	140 (60) / -20(-29)	35	N/A
110-TS	1	N/A	10	200	<1mΩ	3600	140 (60) / -20(-29)	35	N/A
110-TL	1	N/A	10	200	<1mΩ	1200	140 (60) / -20(-29)	10	N/A
105 *	1	N/A	4	200	<1mΩ	7500	212 (100) / 45(7)	<10	N/A
105-SS *	1	N/A	4	200	<1mΩ	7500	212 (100) / 45(7)	<10	N/A

"T" designator indicates standard model
"TS" designator indicates stainless steel ball bearing (recommended for wet or corrosive environments)
"TL" designator indicates low torque
"SS" designator indicates stainless steel ball bearing (recommended for wet or corrosive environments)
* indicates high temp. high RPM
Note: The anodized aluminum housing of the 110 & 105series Mercotac is electrically "hot" to the internal conductor.

Model 110-T & 105 Accessories



5920
one contact receptacle

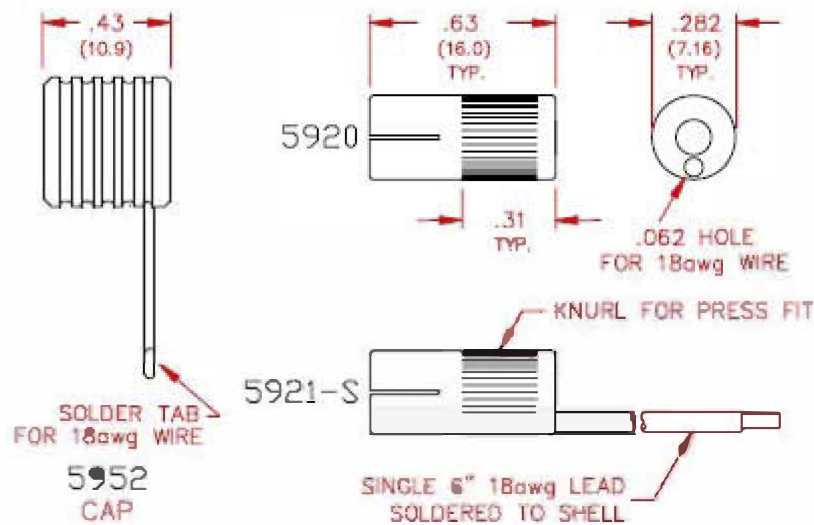


5921-S
one contact receptacle
w/ 6" wire



5952
one contact cap
w/solder lug

Receptacle used for mounting to rotating device.
Accessories are required for wire connections. Order Separately.



SINGLE CONDUCTOR ACCESSORIES

Model 110-T & 105 Connections

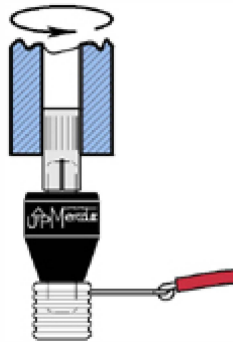


Note: The metal receptacle used for mounting is electrically conductive. Therefore, if desired, it can be used as the electrical connection between the 110 and the rotating member of the machine using Part #5920. However, if an insulated mounting at the rotating member is being used, then Part #5921-S with six inch wire lead is used for the electrical connection.

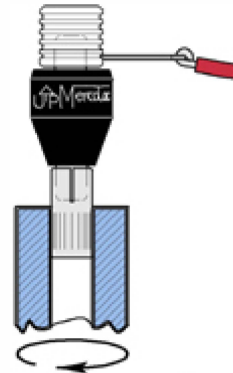
▼ Model 110-T & 105 Suggested Mounting Methods

Model 110-T is typically mounted by the knurled metal receptacle, which is press-fit into the rotating member of the machine. When mounting horizontally, mount the Mercotac so the body of the connector rotates.

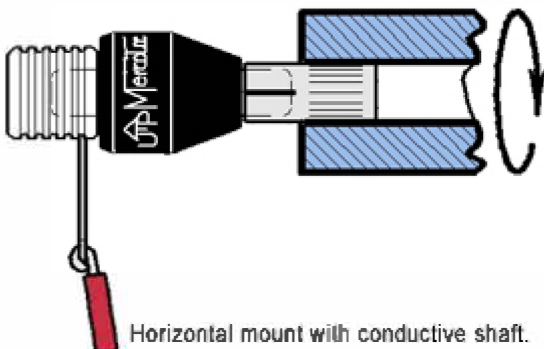
MODEL	Receptacle Mount Hole Dimensions		DEPTH
	HOLE DIAMETER (Ø) *		
5920, 5921-S		.283" (7.19)	.35" (8.89)
*Inch (mm) Tolerance Ø	+.001" (+.025)		
	-.000" (-.000)		



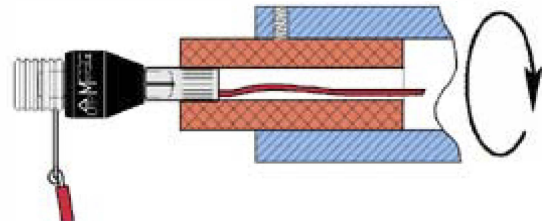
Bottom mount with conductive shaft.



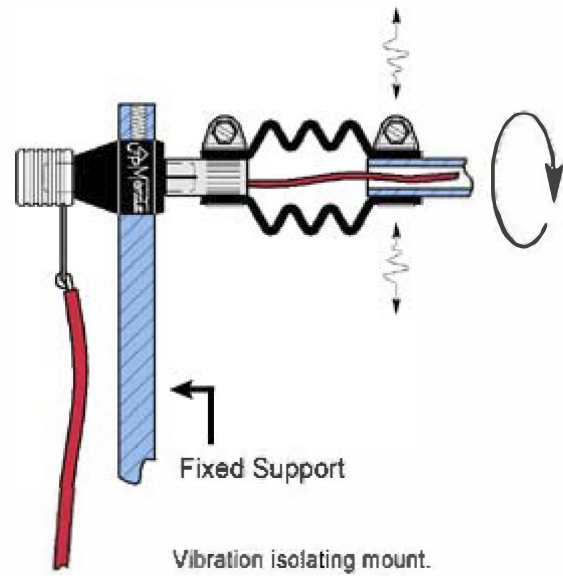
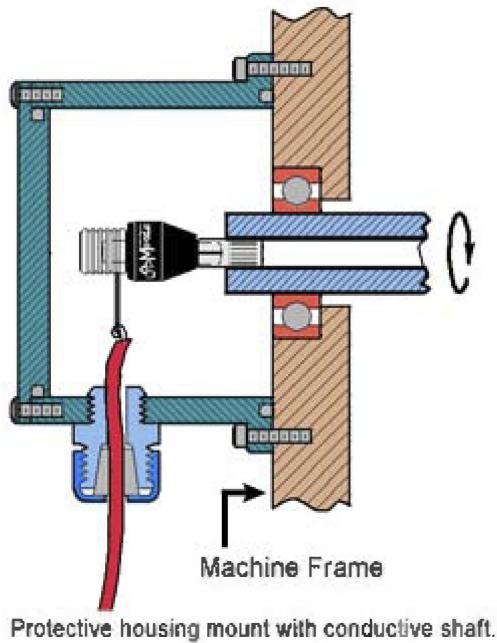
Top mount with conductive shaft.



Horizontal mount with conductive shaft.



Horizontal mount with thermal and electrically insulated shaft.



Installation Notes:

- the up arrow should not point below horizontal
- do not solder to or bend connector tabs
- avoid lateral forces and mechanical loads (overly stiff or tight wires)
- do not rigid mount both ends of connector
- limit mounting eccentricity (runout / wobble) to .005" (.13mm)
- provide overload protection within the circuit
- avoid vibration and bumping motions