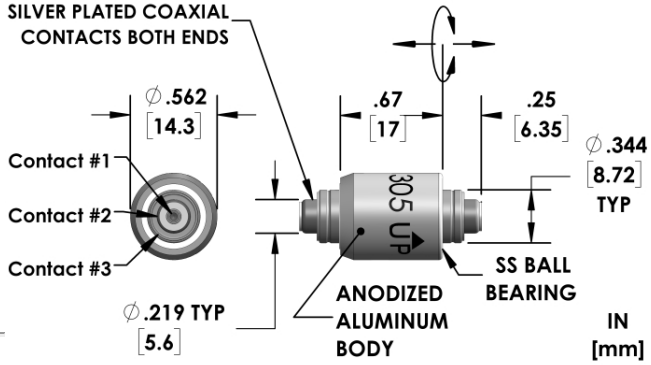
Model 305

Three Conductors,
4 Amps



Stainless steel ball bearing standard

Model No.	Terminals	Voltage AC/DC	Amp Rating @240VAC	Max. Freq. MHz	Contact Resistance	Max. RPM	Temp Max. F (C) / Min. F (C)	Rotation Torque (gm-cm)	Circuit Separation
305	3	0-250	4	200	<1mΩ	1800	140 (60) /45(7)	100	>25MΩ
305-L	3	0-250	4	200	<1mΩ	**1000**	**140 (60) /-20(-29)**	100	>25MΩ

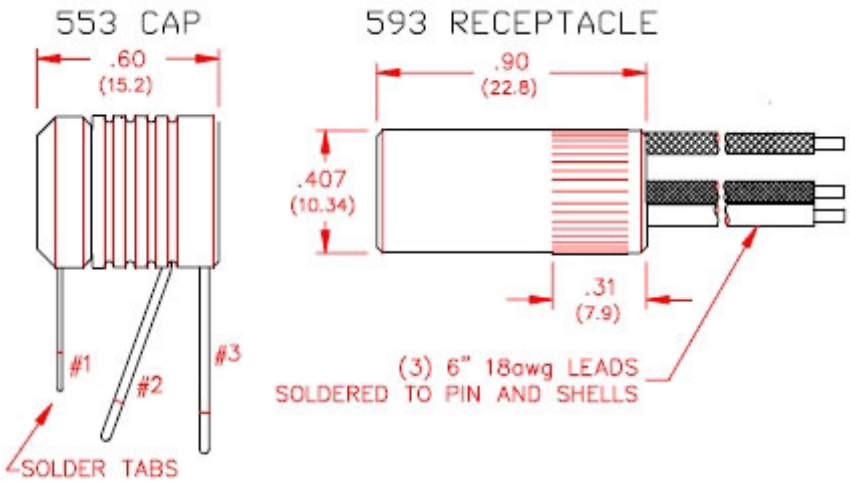
"L" designator indicates low temp.

Model 305 Accessories

593
three contact receptacle w/ 6" wires (18 AWG)

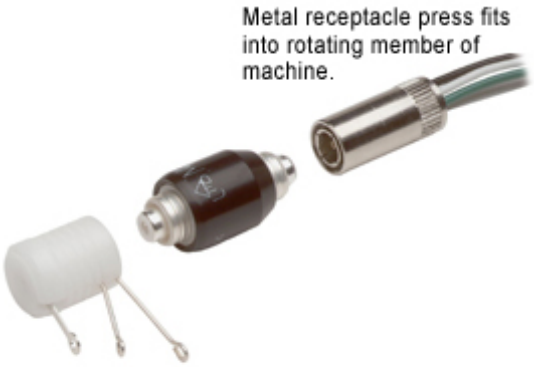
553
three contact cap
w/solder lugs

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



THREE CONDUCTOR ACCESSORIES

Model 305 Connections



Plastic cap with solder lugs to attach stationary wires.

Cap plugs onto stationary end of 305 for attachment of stationary wires.

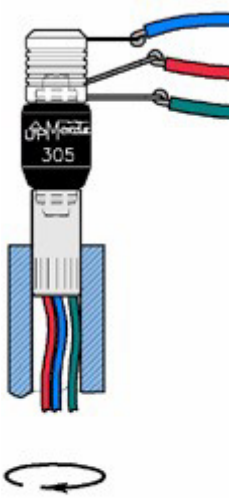
Note: The outer shell of the metal receptacle used for mounting is electrically conductive.

Model 305 Suggested Mounting Methods

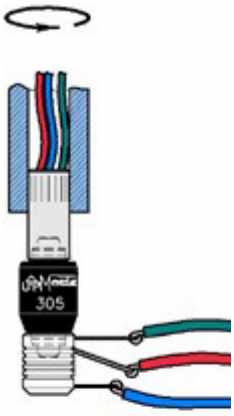
Model 305 is typically mounted by the knurled metal receptacle, which is press-fit into the rotating member of the machine. When mounting horizontally, mount the Mercotac so the body of the connector rotates.

Receptacle Mount Hole Dimensions

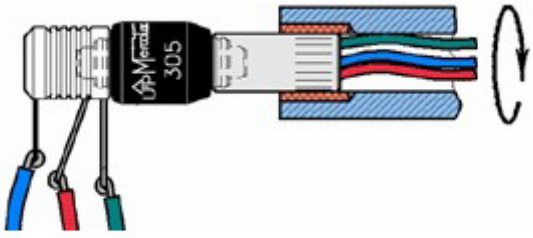
MODEL	HOLE DIAMETER (Ø) *	DEPTH
593	.408" (10.36)	.35" (8.89)
*Inch (mm) Tolerance Ø	+.001" (+.025) -.000" (-.000)	



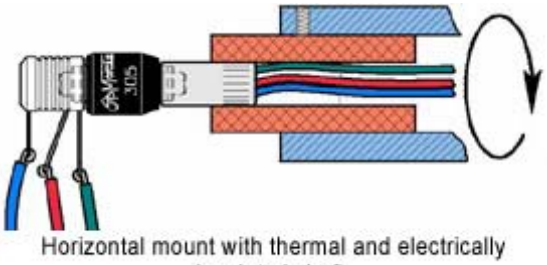
Top mount with non-conductive shaft.



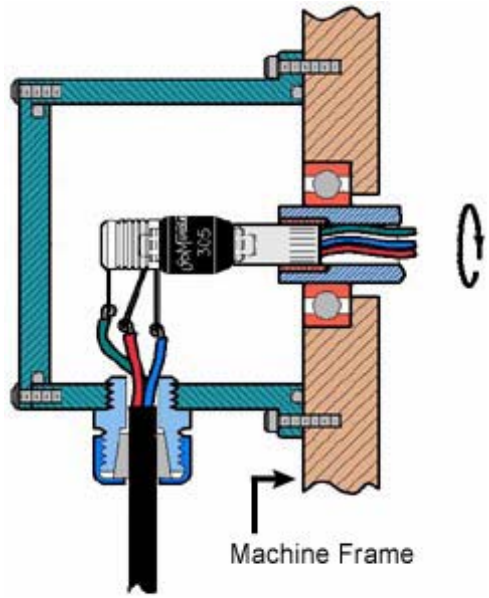
Bottom mount with non-conductive shaft.



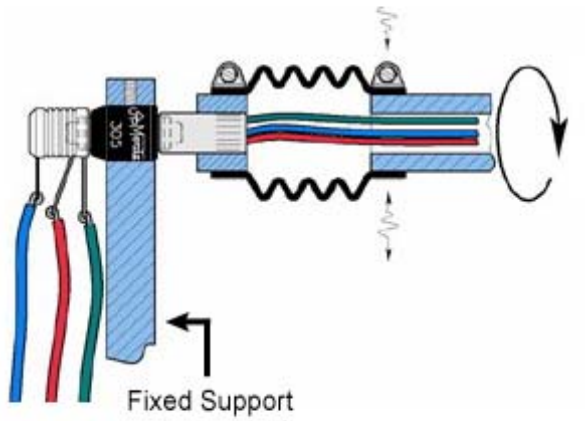
Horizontal mount with electrically isulated shaft.



Horizontal mount with thermal and electrically insulated shaft.



Protective housing mount with insulated shaft.



Vibration isolating mount.

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