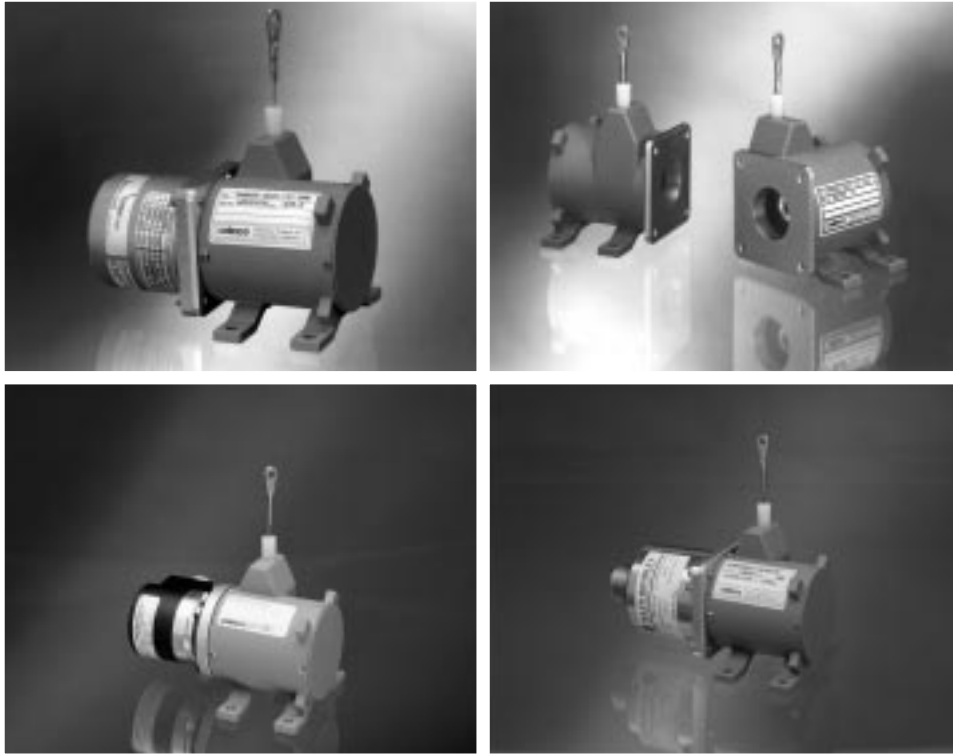


# MEASURING CABLE REPLACEMENT INSTRUCTIONS FOR PT8600 MOTION CONVERSION MODULE



For Model  
PT8600

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## MEASURING CABLE REPLACEMENT

1. There are two allen wrench screws, offset 90 degrees that lock the spool on the rotational sensor shaft. You should be able to see them through the holes in the bottom of the transducer. Rotate the spool so that an allen wrench can be inserted in the access hole in the bottom of the housing and loosen the lock screw.
2. Remove the allen wrench and rotate the spool so the other lock screw can be accessed and loosen the other lock screw.
3. Remove the 4 bolts holding the mounting flange to the transducer body.
4. Remove rotational sensor and mounting flange and set aside.
5. Remove the 4 small phillips head screws holding the endplate in the housing and set aside.
6. Remove the endplate and set aside.
7. If cable has broken and the spool has unwound, releasing all cable tension, skip to step 12, otherwise continue with step 7.
8. Extend the measurement cable enough that it can be cut with wire cutters.
9. Keep the spring arbor/spool from turning. This is best done by holding the spring arbor with your fingers and holding the housing with the same hand.
10. Cut the measurement cable with a pair of wire cutters.
11. Slowly release all spring tension by letting the housing slowly turn while keeping a hold on the spring arbor.
12. Rotate the spring arbor with fingers to ensure spring is engaged. Make sure the arbor is rotated counter-clockwise. Noticeable cable tension should build.
13. Release the small amount of spring tension by allowing the arbor to spin until all tension is gone.
14. Unscrew the spool from the main shaft. Hold the spring arbor in place firmly and use a pair of pliers to unscrew the spool counter-clockwise.
15. Remove the spool.
16. The back side of the spool will have a nylon spacer (looks like a white plastic washer). It typically is stuck to the spool with lithium grease, but may be loose. Remove it and set aside.
17. Make sure all old cable is removed from the spool and the housing
18. Insert the replacement measurement cable down through the cable guide and through the angled hole in the spool.
19. Place a crimp over the end of the cable (inside the spool) with as little excess cable showing as possible.
20. Squeeze the crimp with a crimp tool or a pair of pliers to secure it on the cable.
21. Attach spring winding tool to transducer housing. Make sure end fitting locks onto spring arbor.
22. Using the spring winding tool, wind the spring all the way.
23. Place some lithium grease on the white nylon spacer and replace it on the back of the spool.
24. While keeping slack out of the measurement cable, replace the spool on the threaded shaft, rotating the spool clockwise 5 turns. This will partially wind the cable up the wrong way.
25. Hold the spool firmly in place with a pair of pliers.

26. Release the spring winding tool. The arbor will spin, threading the spool the rest of the way on the threaded shaft. The arbor will stop when the spool is done threading on.
27. Release the spool.
28. Fully extend and retract the cable a few times to check for smooth movement of the cable. The first time will straighten the cable and wind it the correct way.
29. Replace the endplate.
30. Replace the 4 small phillips head screws holding the endplate in the housing.
31. Replace the rotational sensor mounting flange and rotational sensor
32. Re-tighten the allen-wrench screws that lock the spool onto the sensor shaft.
33. Fully extend and retract the cable a few times to check for smooth movement of the cable.