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HTT-400-180 Specification Sheet

SHEET # 940-2T233

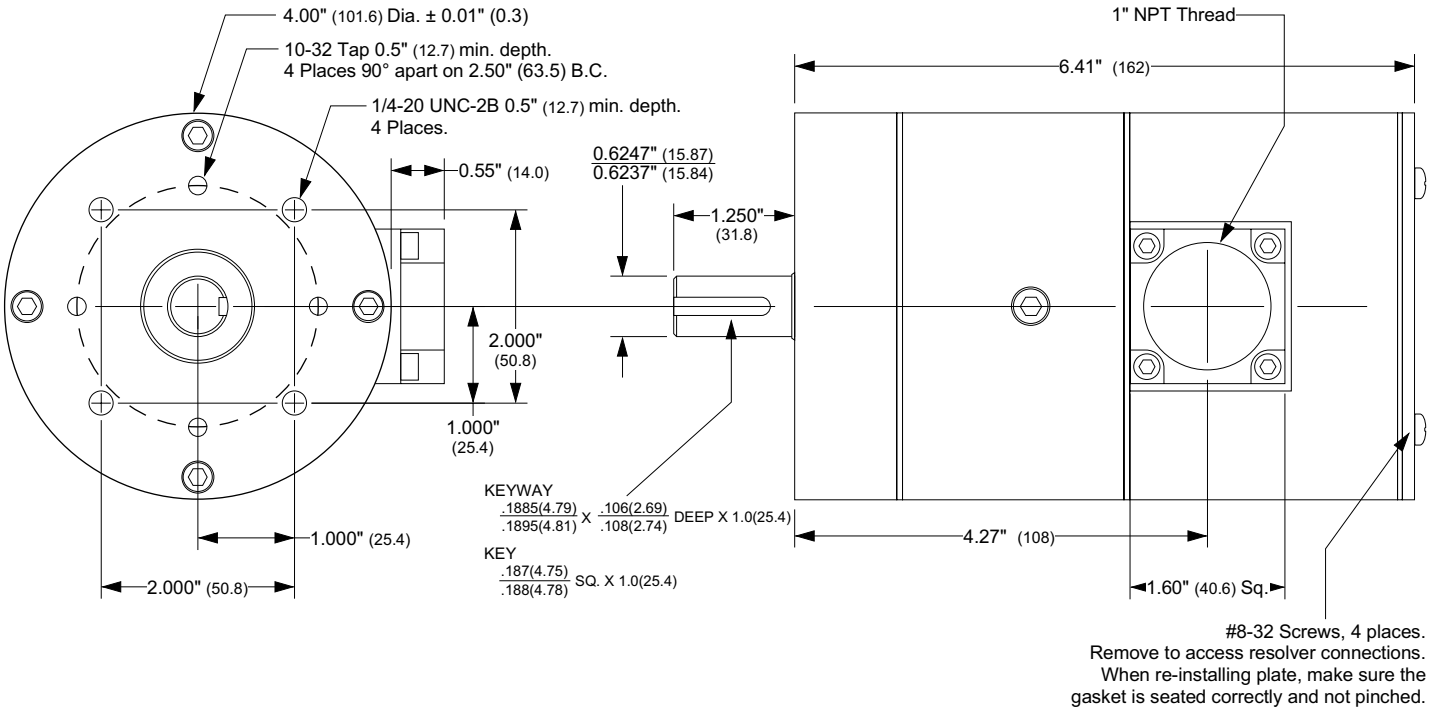
DESCRIPTION

Designed as a direct mechanical replacement for Autotech Controls RL-210 transducers, this product is designed to ease installation change over when converting from Autotech to AMCI control systems. The HTT-400-180 is an absolute 180 turn transducer with the mechanical dimensions and bolt pattern of the Autotech RL210-G064 and RL210-G128. Note that this transducer will not work with Autotech controllers because of the differences in resolvers and gearing.

With its ability to decode 180 turns instead of 64 or 128, the HTT-400-180 can replace the RL-210's in any application that measures linear distance such as press shutheight or crane position. In fact, the HTT-400-180 is better suited to these tasks because it can decode a larger number of turns. With a 40% greater number of turns than the RL210-G128, you can increase you travel range by 40% simply by using this transducer.

For AMCI users, the HTT-400-180 offers the advantage of a transducer with a conduit connection. With proper installation, this completely eliminates the possibility of liquid contaminates entering the transducer cable. AMCI's standard bolt pattern is also on the front of the transducer so that mounting brackets designed for our HTT-20 transducers may also be used with the HTT-400-180 without modification.

DIMENSIONAL DRAWING



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SPECIFICATIONS

Mechanical

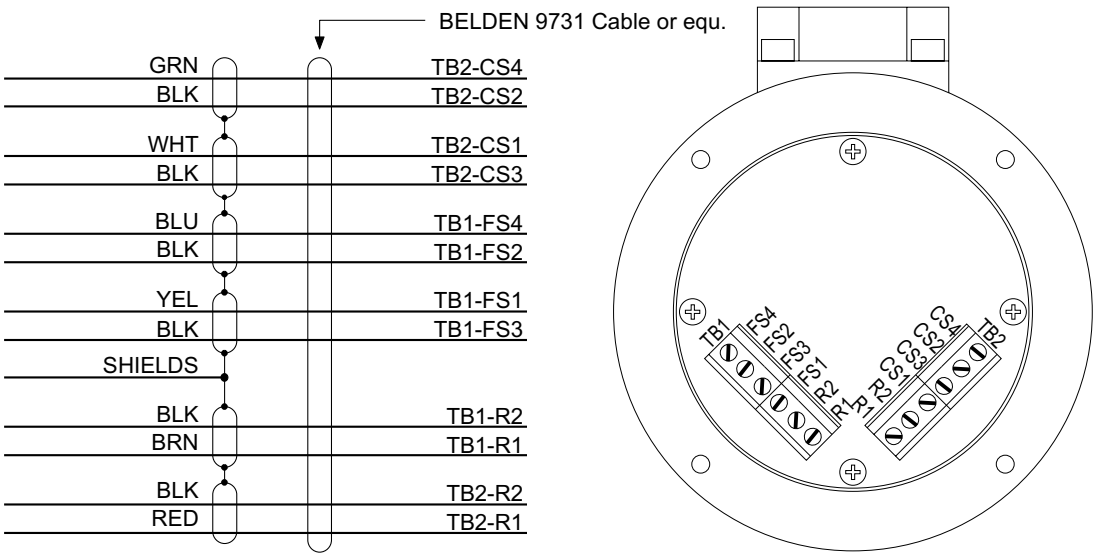
Shaft Loading: Radial: 100 lbs. max.
Axial: 50 lbs. max.
Bearing life rated at 2X10^9 revolutions minimum at specified shaft load.
Starting Torque: 8 oz.in. @ 25°C
Moment of Inertia: 8.75X10^{-4} oz-in-sec^2 max.
Weight: 5.25 lbs

Environmental

Shock: 50 g's for 11 mSec
Vibration: 15 g's to 2000 Hz
Operating Temp: -40 to 125°C (-40 to 257°F)
Enclosure: Anodized Aluminum Body
1070 Carbon Steel Shaft
IP64 when conduit properly sealed.

WIRING DIAGRAM

The figure below shows how to wire the HTT-400-180 to AMCI's standard multi-turn cable, the Belden 9731 or exact equivalent. Wiring to AMCI interface products then follow diagrams given in the manual for each product.



NOTE The shields of the transducer cable are terminated at the controller *Only!* Do not connect the cable shields to the HTT-400-180 housing. Cut off the foil shields and drain wires inside the cable jacket at the transducer end of the cable.