The ID/RTX-PA Series rotary position transducer with analog voltage output is primarily for use in moderate duty applications in wet or dry environments. The chemical resistant thermoplastic case of the transducer provides IP-65 (NEMA 4) ingress protection for applications where exposure to washdown, rain, oil and other liquids may occur. The sealed case is achieved through the use of o-rings and a shaft seal. Electrical connection options include a body mounted sealed plastic connector with mating connector or a sealed bulkhead fitting and multi

conductor electrical cable of user specified length. Alternatively, the mating connector may be ordered with electrical cable as a separate item. As an installation convenience, end mounted or radial mounted connection locations are offered.

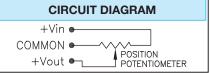
SPECIFICATIONS

GENERAL	
Sensing Device	Precision Potentiometer
Resolution	Essentially Infinite
Linearity all ranges	±0.30% Full Scale
Repeatability	±0.02% Full Scale
Shaft Radial Load	4.5 Kg (10 lb.) maximum within length of shaft only
Weight	250 gm. (9 oz.)
Electrical Connection	Plastic Connector or Bulkhead
	Fitting with Electrical Cable
Construction	Anodized Aluminum or Stainless Steel Base
	& Thermoplastic Cover
Life	50,000,000 Revolutions Minimum
Shaft Breakaway Torque	3 oz-in (0 021 N-m) Maximum

+Vin • Shaft Breakaway Torque.....3 oz-in (0.021 N-m) Maximum **ENVIRONMENTAL** COMMON • Operating Temperature.....-40°C to 95°C +Vout ● Storage Temperature-55°C to 95°C Operating Humidity100% R.H. Vibration15 G's 0.1 ms max.

ELECTRICAL

Input Impedance......1000 $\Omega \pm 15\%$ Standard Output Impedance.....0 to 1000 Ω Output Voltage.....Approx. 97% of input voltage



MODEL NUMBER CONFIGURATION

RTX-PA-



Shock......50 G's 0.1 ms max. Ingress Protection.....IP-65 (NEMA 4)











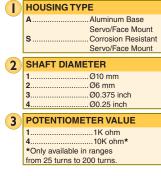
1 2 3 0 ROTATIONAL RANGE

Designator Rotation 45D 90D. .90 180D 180° 2 Rev .3 Rev .5 Rev 15 Rev .20 Rev 40 40 Rev 50. .50 Rev60 Rev .80 Rev 100 100 Rev

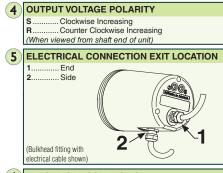
125..... 125 Rev

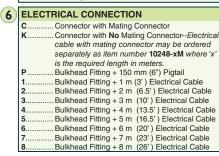
150.....150 Rev.

200.....200 Rev.





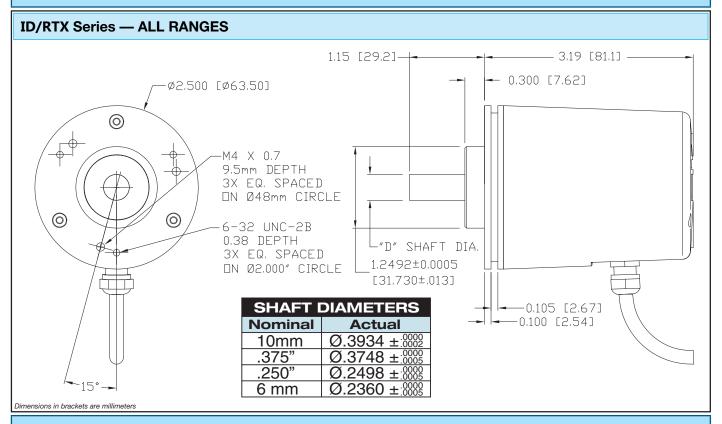








DIMENSIONAL INFORMATION



ACCESSORIES

10349 - SERVO CLEAT KIT

10349 - Servo Cleat Kit - 4-40 screws Includes 3 each servo cleats with 4-40 x 0.37 long screws. Order no.: **10349**



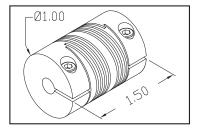
10350 - SERVO CLEAT KIT (Metric)

10350 - Servo Cleat Kit - M3 screws Includes 3 each servo cleats with M3 x 10mm long screws. Order no.: **10350**



HELICAL BEAM COUPLINGS

A number of helical beam couplings are available to adapt the standard 10mm shaft of the **ID/RTX** to other popular shaft sizes. The couplings accommodate axial misalignment and offer zero backlash. Coupling material is aluminum. Order by number shown.



ORDER No.	COUPLING SIZE
10388	10 mm to 6 mm
10389	10 mm to 0.250"
10390	10 mm to 0.375"
10391	10 mm to 10 mm
10392	10 mm to 0.500"

10248-xM - MATING CONNECTOR WITH ELECTRICAL CABLE

10248-xM – Mating connector with electrical cable. Electrical cable is 3 conductor, shielded cable with drain wire. Replace 'x' in part number with the required length in meters to nearest whole meter. Order no.:**10248-xM**, where 'x' = length required in meters.

