## RTX-PA SERIES - Rotary Position Transducer RATIOMETRIC VOLTAGE OUTPUT

The UniMeasure 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 NEMA 4 (IP-65) 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.

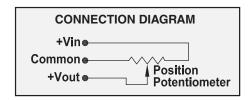


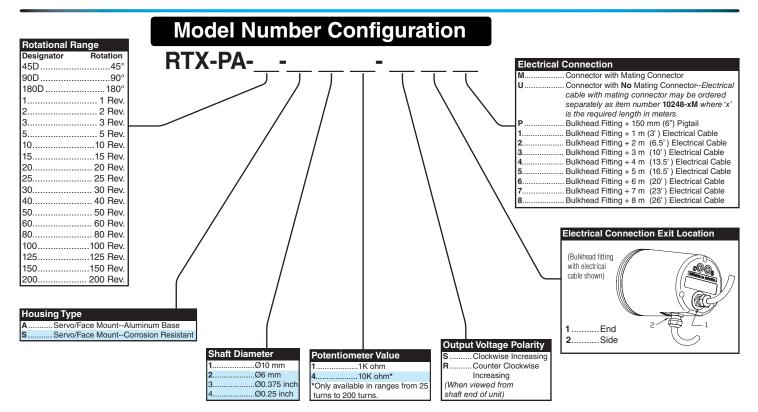
#### **SPECIFICATIONS**

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

Conoral

# Environmental Operating Temperature .....-40°C to 95°C Storage Temperature ....-55°C to 95°C Operating Humidity ......100% R.H. Vibration ......15 G's 0.1 ms max.



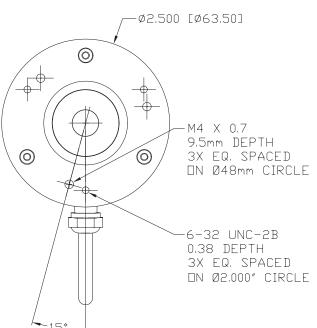


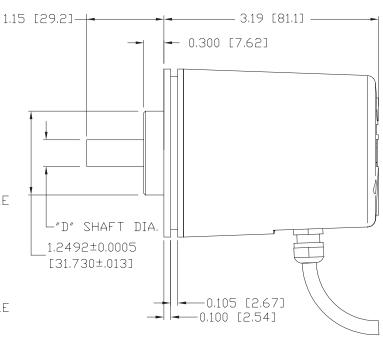
NOTE
1) Shaded options available at additional cost.

Example RTX-PA-20-A11-S1U

#### DIMENSIONAL INFORMATION

SHAFT DIAMETERS	
Nominal	Actual
10mm	Ø.3934 ±:0000
.375"	Ø.3748 ±:0005
.250"	Ø.2498 ±:0005
6 mm	Ø.2360 ± 0000





**Dimensions in brackets are millimeters** 

#### **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

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

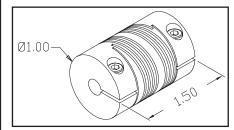
### 10248-xM MATING CONNECTOR WITH ELECTRICAL CABLE

**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 meter increments.

Order no.:10248-xM, where 'x' = length required in meters.

#### Helical Beam Couplings

A number of helical beam couplings are available to adapt the standard 10 mm shaft of the 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	10mm to 6mm
10389	10mm to 0.250"
10390	10mm to 0.375"
10391	10mm to 10mm
10392	10mm to 0.500"