RTX-P420 SERIES - Rotary Position Transducer

4 to 20 mA CURRENT OUTPUT

General

The UniMeasure RTX-P420 series rotary position transducer with 4 to 20 mA current 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.

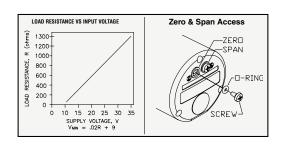
SPECIFICATIONS

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Sensing Device	. Precision Potentiometer
Resolution	. Essentially Infinite
Linearity all ranges	. ±0.30% Full Scale
Repeatability	. ±0.015% Full Scale
Shaft Radial Load	. 4.5 Kg (10 lb.) maximum
Weight	. 255 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
Environmental	
Operating Temperature	40°C to 95°C
Storage Temperature	55°C to 95°C
Operating Humidity	
Vibration	15 G's 0.1 ms max.

Shock......50 G's 0.1 ms max. Ingress ProtectionNEMA 4, IP-65

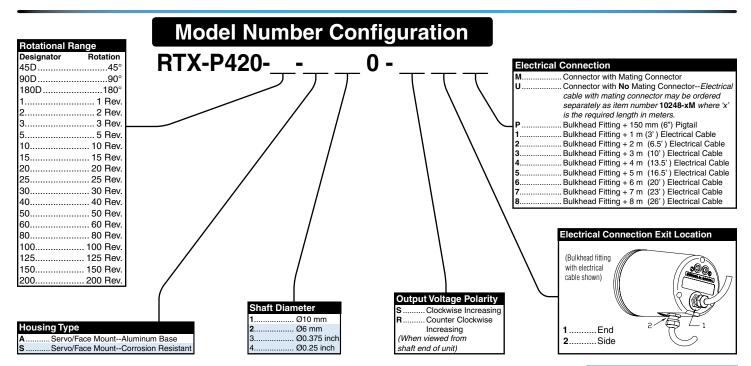
1) Shaded options available at additional cost.

Electrical	
Output 4 to 20 mA	
Load Resistance (Total Loop) See Graph Bel	ow
Excitation Voltage 9 to 35 VDC	
Minimum Supply Voltage (.02 X Load Re	es.) +9 VDC
Zero Adjustment Range 0 to 30% of Total	al Range
Span Adjustment Range 80% to 100% of	of Range
Protection Fused & Rever	sed Polarity



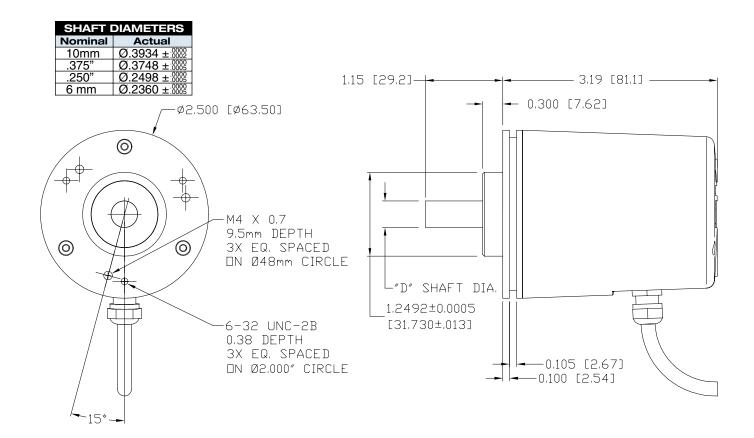
Example

RTX-P420-20-A10-R13



RTX-P420 SERIES - Rotary Position Transducer SUPPLEMENTAL DATA

DIMENSIONAL INFORMATION



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

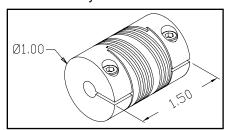
10248-xM MATING CONNECTOR WITH ELECTRICAL CABLE

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"