

Your Sensor Solution Source

RTX-P420 SERIES - Rotary Position Transducer 4 to 20 mA CURRENT OUTPUT

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 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.

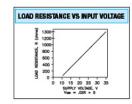
SPECIFICATIONS

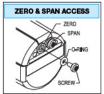
GENERAL

GENERAL	
	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	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
Shaft Breakaway Torque	3 oz-in (0.021 N-m) Maximum
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.
Shock	50 G's 0.1 ms max.
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ELECTRICAL

	Output	4 to 20 mA
	Load Resistance (Total Loop)	See Graph Below
	Excitation Voltage	9 to 35 VDC
	Minimum Supply Voltage	(0.02 X Load Res.) +9 VDC
,	Zero Adjustment Range	0 to 30% of Total Range
	Span Adjustment Range	80% to 100% of Range
	Protection	Fused & Reversed Polarity





MODEL NUMBER CONFIGURATION

Ingress Protection.....IP-65 (NEMA 4)

RTX-P420-



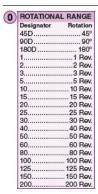






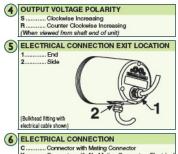






Ph: 864-848-3993





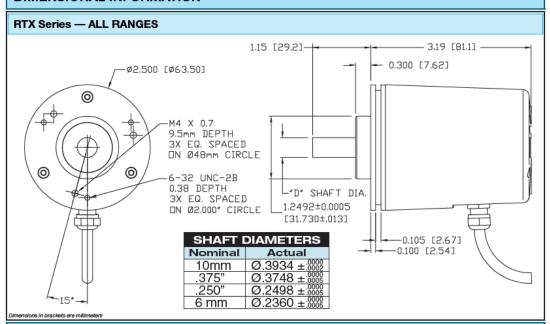
ELECTRICAL CONNECTION	
C	
is the required length in meters. P	
Bulkhead Fitting + 2 m (6.5') Electrical Cable Bulkhead Fitting + 3 m (10') Electrical Cable Bulkhead Fitting + 4 m (13.5') Electrical Cable	
Bulkhead Fitting + 5 m (16.5') Electrical Cable Bulkhead Fitting + 6 m (20') Electrical Cable Bulkhead Fitting + 7 m (23') Electrical Cable Bulkhead Fitting + 8 m (26') Electrical Cable	

Fax: 864-848-9569

POB 1778 Greer, SC 29652 414 West Poinsett Street Greer, SC 29650



DIMENSIONAL INFORMATION



ACCESSORIES

Ph: 864-848-3993

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)

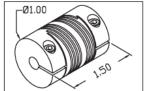
10350 - Servo Cleat Kit - M3 screws Includes 3 each servo cleats with M3 x 10mm long screws. Order no.: 10350



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HELICAL BEAM COUPLINGS

A number of helical beam couplings are available to adapt the standard 10mm 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	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.

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mike@traskinst.com www.traskinst.com