The ID/RTX-P510 series rotary position transducer offers a voltage output with wide adjustability to give a 0 to 5, 0 to 10, ±5 or ±10 VDC output. The device may be powered with any voltage in the range of 4.9 to 30 VDC. With the zero position set anywhere within the first 30% of total travel, the span may be adjusted to give a full 0 to 5 or 0 to 10 VDC output with the span set anywhere within the last 20% of travel. Alternatively, the zero position may be set anywhere between 40% and 60% of full travel to give an output of ±5 or ±10 VDC with the span set between 80% to 100% of the longest travel from the zero position. The ID/RTX-P510 series shares similar traits of other ID/RTX

series rotary transducers including chemical resistant thermoplastic case, IP-65 (NEMA 4) ingress protection, body mounted electrical connector or bulkhead fitting with length of electrical cable, and side or end mounted electrical connection location.

SPECIFICATIONS

GENERAL	
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 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 85°C Storage Temperature.....-55°C to 95°C

Operating Humidity100% R.H. Vibration15 G's 0.1 ms max. Shock50 G's 0.1 ms max. Ingress ProtectionIP-65 (NEMA 4)

ELECTRICAL

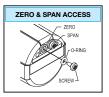
ADJUSTMENT RANGE- 0 to 5 or 0 to 10 VDC		
Output Load	5KΩ min.	
Output Impedance	10Ω max.	
Excitation Current	25 mA max.	
Excitation Voltage	4.9 to 30 VDC	
Output	0 to 5, 0 to 10, ±5, ±10 VDC	

Zero0 to 30% of Range Span80% to 100% of Range

ADJUSTMENT RANGE- ±5 or ±10 VDC

Zero40% to 60% of Range Span80% to 100% of Longest Possible Travel from Zero Position

Protection.....Reversed Polarity



MODEL NUMBER CONFIGURATION

RTX-P510-









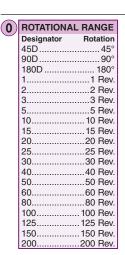


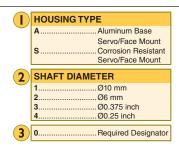


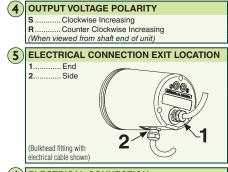
Basic Configuration

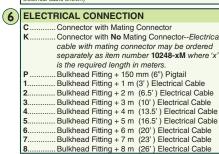
(FOR ALL RANGES)

ID/RTX-P510-50-A10-S1C







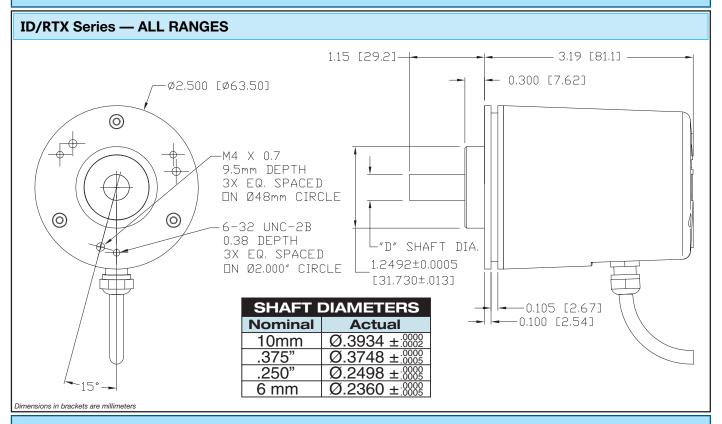




info@instrumentation.it - www.instrumentation.it



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**



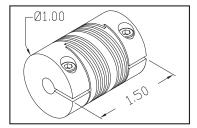
10350 - SERVO CLEAT KIT (Metric)

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.

