# **P1010** SERIES ±10 VDC ANALOG OUTPUT

#### ±10 VDC output adjustable to ±5 VDC output

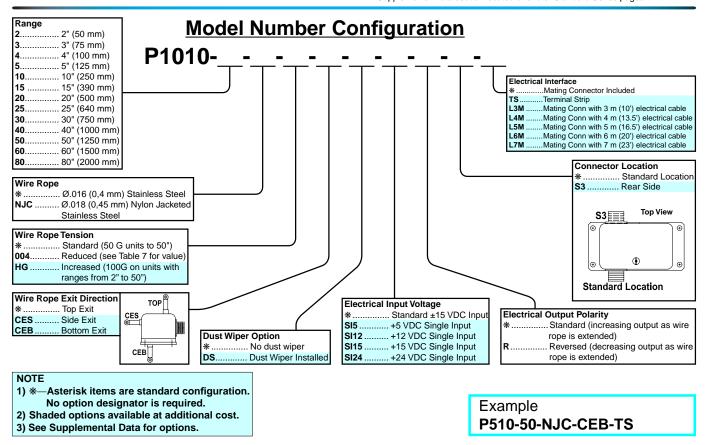
The P1010 series position transducer provides an output voltage from -10 VDC to +10 VDC with adjustment capability to -5 VDC to +5 VDC. The zero position may be set within 10% to 90% of the total range of the transducer. The output voltage will be positive when the cable is extending from the zero position and negative when retracting from the zero



position. The span may be adjusted to the maximum output voltage within 50% to 100% of the longest possible travel, whether positive or negative, from the zero position. A  $\pm 15$  VDC input is required but optional single inputs of +5, +12, +15, or +24 VDC are available. With optional inputs, the power supply ground is isolated from the output common.

Electrical
Output ±10 VDC adjustable to ±5 VDC
Excitation Voltage +15 VDC ±10% & -15 VDC ±10%
Input Current 25 mA max.
Output Impedance1.0Ω max.
Output Load
Capacitive Load 1000 pF
Zero Adjustment Range 10% to 90% of Range
Span Adjustment Range 50% to 100% of Longest Possible
Travel from Zero Position
Protection Reversed Polarity Temperature Stability
CONNECTION DIAGRAM
STANDARD   SINGLE INPUT VOLTAGE OPTION
E POSITION E POSITION F POTENTIOMETER
FOOTNOTES TO SPECIFICATIONS
<ol> <li>Moving to the same position from the same direction.</li> <li>Supplemental Data position located at and of Clanded Carlos posed</li> </ol>





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# **STANDARD** SERIES SUPPLEMENTAL DATA

#### ADDITIONAL OPTIONS

OPTION	OPTION DESIGNATOR	DESCRIPTION					
Nylon jacketed wire rope	NJC	Replaces standard stainless steel wire rope with $\emptyset$ .018 nylon jacketed wire rope. Increases wire rope life dramatically but may increase non-linearity by as much as $\pm 0.05\%$ of full scale.					
Reduced Wire Rope Tension	004	Reduces the overall tension in the wire rope and increases wire rope life. Dynamic response of the transducer is reduced due to the reduced inbound acceleration capability.					
Increased Wire Rope Tension	HG	Increases tension in the wire rope which increases the dynamic response of the transducer. On selected units with range of 50" (1250 mm) or less, inbound acceleration capability is 100G's. Wire rope life may be adversely affected by the HG option.					
Dust wiper	DS	Lubricated wiper strips dust and debris from wire rope as it retracts into case. Adds 0.36" (9 mm) height to wire rope exit location.					
Terminal strip	TS	Replaces connector with a terminal strip.					
Reversed output R		Output is at a maximum when wire rope is fully retracted. Output decreases as wire rope is extended. Does not apply to velocity signal.					
Non-standard potentiometer (applies to PA series only)	РХК	Replace "X" in option designator with required potentiometer value in K ohms. Non-standard potentiometer linearity is as follows: Ranges 0 to 2" to 0 to 5"±1.00% of full scale Ranges 0 to 10" to 0 to 25"±0.50% of full scale Ranges 30" and above±0.25% of full scale Note: This option is subject to potentiometer availability.					

#### ACCESSORIES

#### **10067 Auxiliary Wire Rope Extension Kit**



The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the measurement point. The clip on the extension attaches to the eye fitting on the transducer. The eye fitting on the opposite end which is identical to the fitting on the transducer mounts to the moving element. The extension kit is also available with the clip end unterminated for situations where it is more convenient to size the wire rope length during installation. The clip and crimp sleeve are included as loose parts for user termination.

	10067- CM-	
Dimension "L"	T $T$	*Completed kit (no designator required)
Specify dimension "L" in centimeters to the nearest whole centimeter.		U Unterminated clip end
Note 1. 1 cm = 0.394", 1 inch = 2.54 cm		(clip and crimp sleeve included in kit)
Note 2. Shortest length "L" is 5 cm (approximately 2").		* Leave blank. No designator required.

#### Replacement Wire Rope Kit

The replacement Wire Rope Kit includes a new wire rope with all end terminations, wire rope guide, felt dust wiper where applicable and installation instructions. To order, replace 'xx' in the part number with the applicable measurement range in inches.

10107-xx Replacement Wire Rope Kit-Standard Ø.016" stainless steel wire rope.

10108-xx Replacement Wire Rope Kit-NJC option, Ø.018" nylon jacketed stainless steel wire rope.

10127-xx Replacement Wire Rope Kit—DS option, Standard Ø.016" stainless steel wire rope with dust wiper.

10128-xx Replacement Wire Rope Kit-NJC and DS options, Ø.018" nylon jacketed stainless steel wire rope with dust wiper.

### STANDARD SERIES

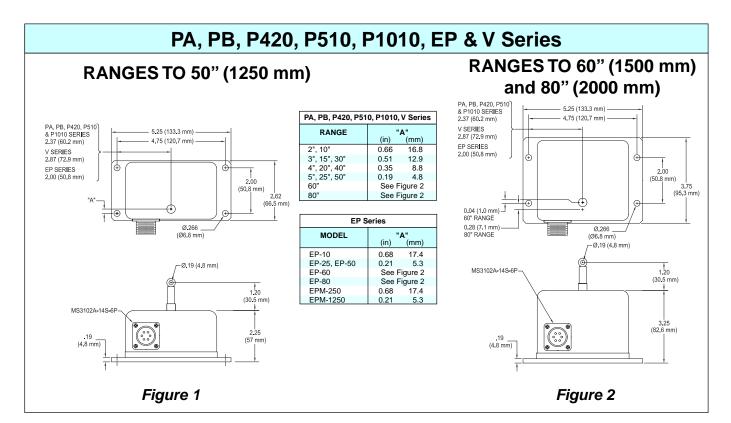
SUPPLEMENTAL DATA

#### ADDITIONAL SPECIFICATIONS

### TABLE 7

PA, PB, P420, P510, P1010 SERIES									EP S	V & VP Series			
Range Designator	Range		Wire Rope Standard Tension		Wire RopeWireStandardReduAccelerationTens		lced	Wire Rope Reduced Acceleration	Wire Rope Reduced Tension	Wire Rope Reduced Acceleration	Red	Rope uced sion	Wire Rope Reduced Acceleration
			(Nom	,		(004 o	• •	(004 option)	(004 option)	· · /	(004 c	ption)	· · ·
	(in)	(mm)	(oz)	(N)	(G's)	(oz)	(N)	(G's)	(oz) (N)	(G's)	(oz)	(N)	(G's)
2	2	50	34	9.5	>50	16	4.4	28			16	4.4	14
3	3	75	24	6.7	>50	14	3.9	16			14	3.9	15
4	4	100	24	6.7	>50	11	3.1	12			11	3.1	15
5	5	125	34	9.5	>50	8	2.2	7			8	2.2	6
10	10	250	34	9.5	>50	16	4.4	28	16 4.4	19	16	4.4	14
15	15	390	24	6.7	>50	14	3.9	16			14	3.9	15
20	20	500	24	6.7	>50	11	3.1	12			11	3.1	14
25	25	640	34	9.5	>50	8	2.2	7	8 2.2	7	8	2.2	6
30	30	750	24	6.7	>50	14	3.9	16			14	3.9	15
40	40	1000	24	6.7	>50	11	3.1	12			11	3.1	12
50	50	1250	34	9.5	>50	8	2.2	7	8 2.2	7	8	2.2	5
60	60	1500	24	6.7	27	7	1.8	2	7 1.8	5	7	1.8	6
80	80	2000	19	5.3	16	5	1.4	2	5 1.4	2	5	1.4	3

DIMENSIONAL INFORMATION



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