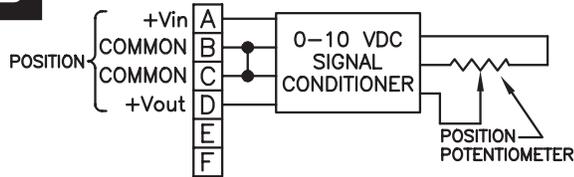


P510 Series Installation Guide

Wiring and Circuit Diagram

Model P510



Excitation Voltage	4.9 to 30 VDC
Excitation Current	25 mA max.
Output Impedance	10 Ω max.
Output Load	5K Ω min.

0 to 5 VDC and 0 to 10 VDC

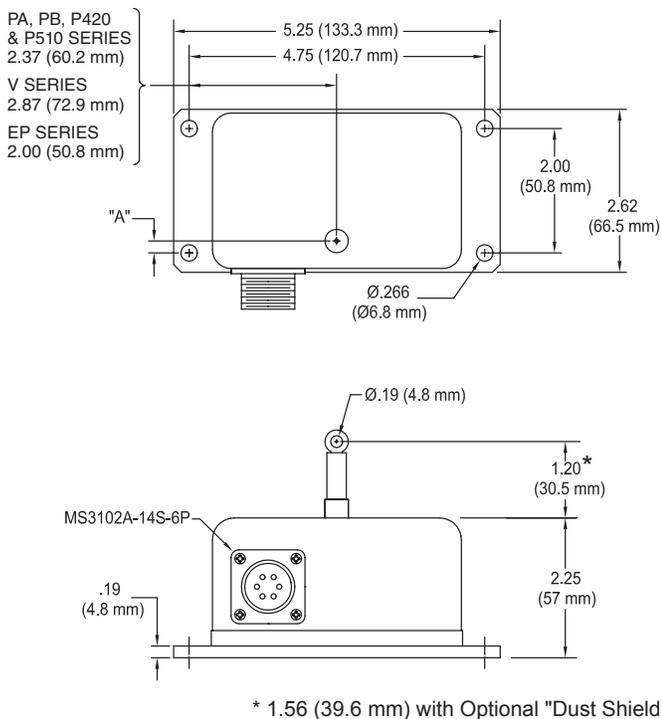
As shown in the diagram above, both commons on pins "B" and "C" are connected together internally at the transducer, so that either a 3-wire or 4-wire connection to the transducer may be made. With small blade type screwdriver (.105" max. blade width X .023" max. blade thickness), adjust the *Zero* and *Span* controls on the transducer to set zero output voltage and maximum output voltage. **Note:** The *Zero* and *Span* controls are somewhat interactive and may require several iterations to obtain the desired zero and maximum settings. Extend the cable (on angular position transducers, rotate shaft) of the transducer to the desired zero position (must be within 0% to 30% of range.) Adjust the *Zero* control so that the output voltage is zero. Then extend the cable (on angular position transducers, rotate shaft) to the desired maximum position (must be within 80% to 100% of range.) Adjust the *Span* control for maximum output voltage required (unit will adjust from 5 VDC to 10 VDC). Recheck the zero setting and adjust if necessary. Recheck the Span setting and readjust if necessary.

+/- 5 VDC and +/- 10 VDC

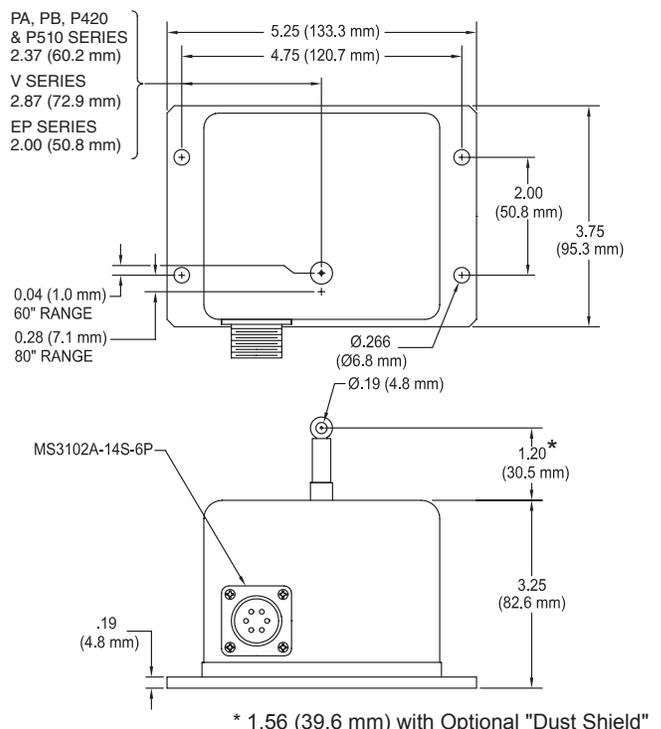
Extend the transducer cable to the desired zero position (must be within 10% to 90% of the total range). Adjust the *Zero* control to give a zero voltage output. Then extend the cable to the desired maximum position in the direction of longest possible travel (either positive or negative) from the zero position. To obtain maximum output voltage magnitude this position must lie within 50% to 100% of the longest possible travel. Adjust the *Span* control to the output voltage magnitude required (+ or - 10 VDC maximum). Recheck the zero and span settings and readjust if necessary.

Dimensional Information

Ranges to 50" (1250 mm)



Ranges to 80" (2000 mm)



Standard Series Installation Guide

OPTION "CES" SIDE CABLE EXIT

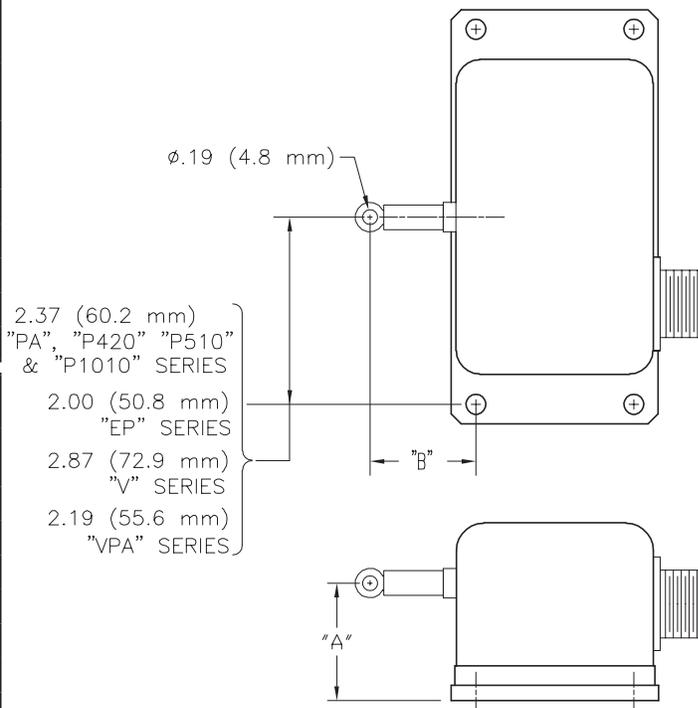
PA, PB, P420, P510, P1010, EP, V, VP SERIES

RANGE	PA, PB, P420, P510, P1010 EP, V SERIES	
	DIMENSION "A"	DIMENSION "B"*
2", 10"	1.52" (38.6 mm)	1.28" (32.5 mm)
3", 15", 30"	1.68" (42.7 mm)**	1.28" (32.5 mm)
4", 20", 40"	1.84" (46.7 mm)**	1.28" (32.5 mm)
5", 25", 50"	1.97" (50.8mm)**	1.28" (32.5 mm)
60"	2.53" (64.3 mm)	1.78" (45.2 mm)
75"	2.76" (70.2 mm)	1.78" (45.2 mm)
80"	2.84" (72.2 mm)	1.78" (45.2 mm)

RANGE	VP SERIES	
	DIMENSION "A"	DIMENSION "B"*
2", 10"	1.58" (40.1 mm)	1.68" (42.7 mm)
3", 15", 30"	1.74" (44.2 mm)**	1.68" (42.7 mm)
4", 20", 40"	1.90" (48.3 mm)**	1.68" (42.7 mm)
5", 25", 50"	2.03" (52.3 mm)**	1.68" (42.7 mm)
60"	2.59" (65.8 mm)	1.68" (42.7 mm)
75"	2.82" (71.6 mm)	1.68" (42.7 mm)
80"	2.90" (73.7 mm)	1.68" (42.7 mm)

* With "DS" (dust shield) option, add 0.36" (9.1 mm) to "B" dimensions above.

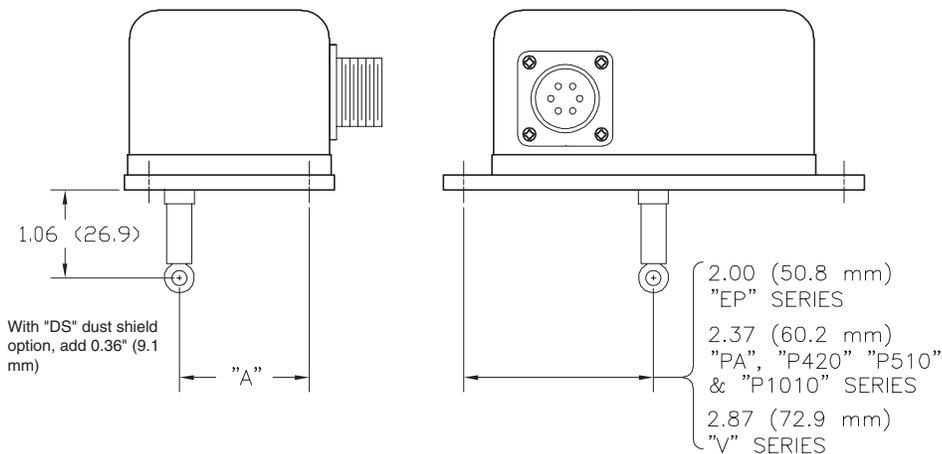
** With "HG" (high wire rope tension) option, add 0.375" to dimension shown for 30", 40" and 50" measurement ranges only.



OPTION "CEB" BOTTOM CABLE EXIT

PA, PB, P420, P510, P1010, EP, V SERIES

RANGE	DIMENSION "A"
2", 10"	1.34 (34.0 mm)
3", 15", 30"	1.49 (37.8 mm)
4", 20", 40"	1.65 (41.9 mm)
5", 25", 50"	1.81 (46.0 mm)
60"	1.96 (49.8 mm)
75"	2.20 (55.9 mm)
80"	2.28 (57.9 mm)



With "DS" dust shield option, add 0.36" (9.1 mm)