



N2 & EC Linear Potentiometer Specifications

The Linear Potentiometer resides within the cylinder housing and is energized by an external DC power supply. The potentiometer wiper moves in conjunction with the cylinder thrust tube providing an analog voltage feedback signal which is proportional to the linear displacement.

Example: Using a 5 volt supply, 0 VDC = 0% stroke, 2.5 VDC = 50% stroke, and 5 VDC = 100% stroke.

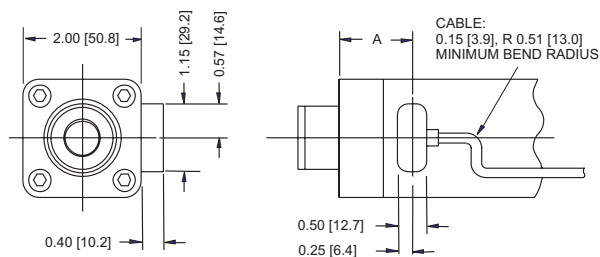
Application Notes:

1. This option not recommended for high vibration environments.
2. This option is required when used with IDC D2500, H3500, H4500, and B8500 series controls.
3. For improved accuracy, users may want to "map" or calibrate each unit.

Specifications

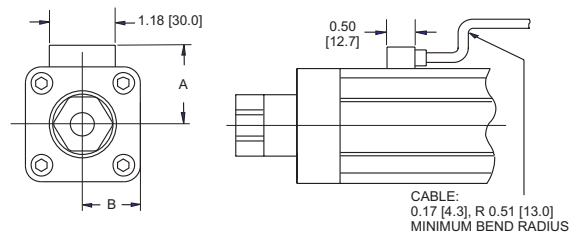
Cylinder Stroke	Resistance (ohms)		Max. Non-Linearity
	N2 (in)	EC (mm)	
2	50	3000 ± 20%	±1%
4	100	6000 ± 20%	±1%
6	150	9000 ± 20%	±1%
8	200	9000 ± 30%	±1%
10	250	9000 ± 30%	±1%
12	300	7000 ± 30%	±1% (5% to 95% of function)
18-DB (16.5 actual)	450	7000 ± 30%	±1% (5% to 95% of function)
	600	7000 ± 30%	±1% (5% to 95% of function)

N2 Dimensions (with side-mounted Linear Pot)



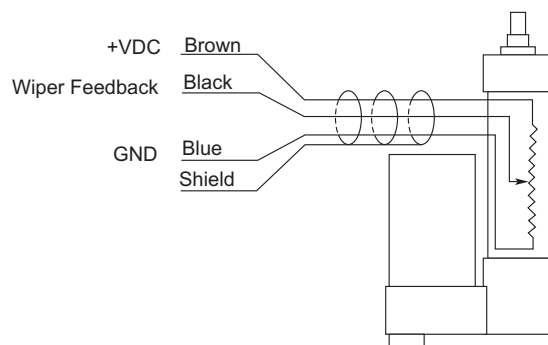
N2 Cylinder Type	DIM "A" with 2, 4, 6, 8, 10" Stroke in [mm]	DIM "A" with 12, 18" Stroke in [mm]
ACME	1.69 [42.9]	1.69 [42.9]
BALL	1.25 [31.7]	1.38 [35.1]

EC Dimensions (with top-mounted Linear Pot)



EC Cylinder Model	DIM "A" in [mm]	DIM "B" in [mm]
EC2	1.47 [37.3]	1.12 [28.5]
EC3	1.72 [43.7]	1.37 [34.8]
EC4	2.15 [54.5]	1.82 [46.1]
EC5	2.15 [54.5]	1.82 [46.1]

Electrical Connections



Locations of Linear Potentiometers on EC and N2 Cylinders

