MODEL 106

LINEAR MOTION POSITION TRANSDUCERS

MODEL NO.*	106
Resistance (Ω) ±20%	5.0K
Linearity (±% standard)	0.07
Electrical Travel in inches (mm)	6″(150)
Case Dimensions in inches	
A inches (mm)	8.82″(224)
B inches (mm)	5.00″(127)
Total Weight (gms)	360
Intertia (gms)	70

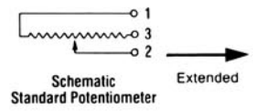
*Add prefix M for metric models.

ELECTRICAL SPECIFICATIONS

Resistance:
2.4K-9.6K Ω standard (See table)
Special resistances: contact factory
R_T Tolerance:
±20% standard
±10% and less: special
Accuracy (independent linearity):
±0.07% to 0.05% standard
(contact factory for special)
Power Rating:
0.75 watts/inch stroke
Temp Range:
−55° to +125°C
Resolution:
Infinite (conductive plastic)
Stroke (electrical travel):
6″ (150mm) to 36″ (900 mm)
(See table)

MECHANICAL SPECIFICATIONS

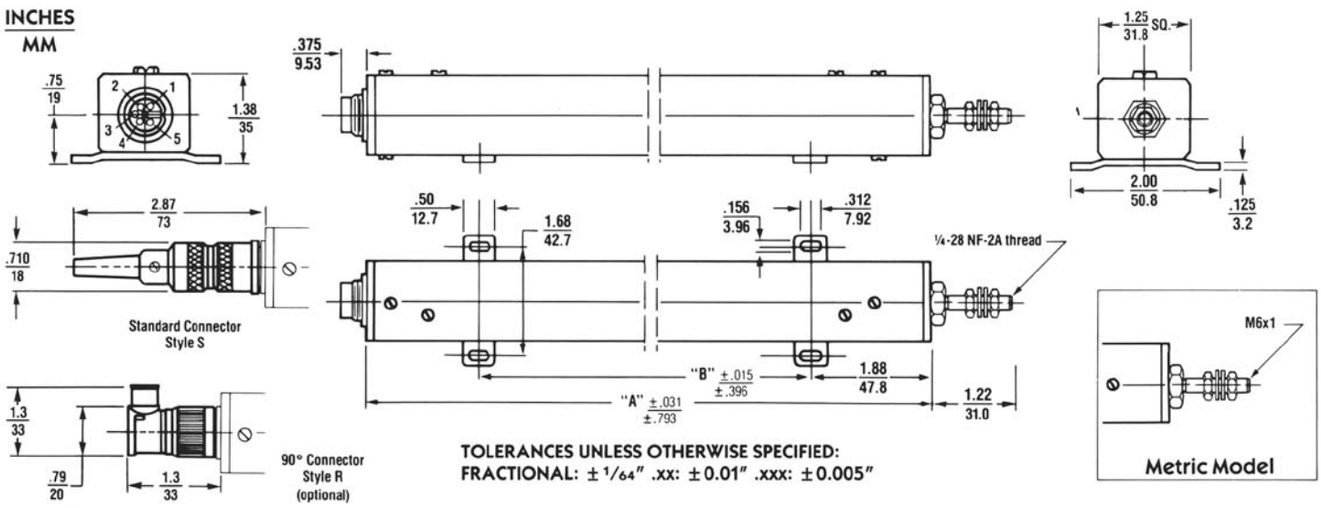
Mechanical Travel:
Electrical travel +0.1″ min. (See table)
Shaft:
0.250″ (6.35 mm) diameter;
¼-28 threaded end adaptor (furnished)
M6 threaded adapter available
(Metric Model)
Case Size:
1.25″ square x length (See table)
Actuation Force:
1 lb. (maximum)—standard
Repeatability:
Within 0.0005″(.013 mm)
Life:
100 × 10^6 (up to 12″ stroke—derated proportionatley for longer units)



Multipin connector with strain relief boot (standard)

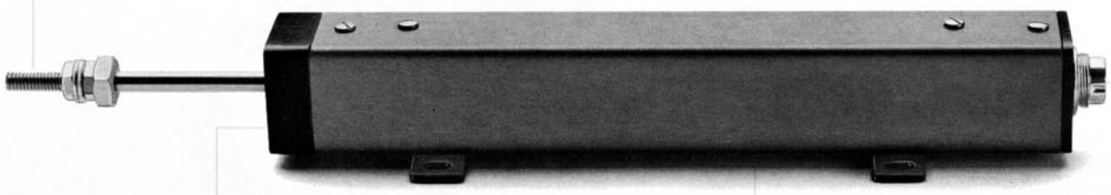
Removable threaded section (standard)

90° connector (optional)



Removable threaded section with integral nut enables designer-choice system interfaces.

Rear cylindrical multipin connector (standard) or 90° style (optional)



Unique "flotation" front bearing allows small deviations in system/unit alignments, guarantees smooth linear operation.

Interior mechanical design and rear bearing design assures operational smoothness and electrical output accuracy.