Precision Potentiometric Output
Ranges: 0-250 to 0-2400 mm
Compact Size • OEM Applications

Z250

Specification Summary:

GENERAL

Full Stroke Ranges	0-250 to 0-2400 mm
Spool Circumference	250 mm
Output Signal	voltage divider (potentiometer)
Accuracy	±0.25 to ±0.15% of F.S.*
Repeatability	±0.15% to ±0.075% of F.S.*
Resolution	essentially infinite
Measuring Cable	0.034-in dia. nylon-coated stainless steel
Sensor	plastic-hybrid precision potentiometer
Frame Material	zinc-plated steel
Cover Material	plastic
Weight, max.	1 lb.

**specifications will vary with configuration, please consult factory*

ELECTRICAL

Input Resistance	500 or 10K ohms (±10%)
Power Rating, Watts	2.0 at 25°C derating to 0 at 105°C

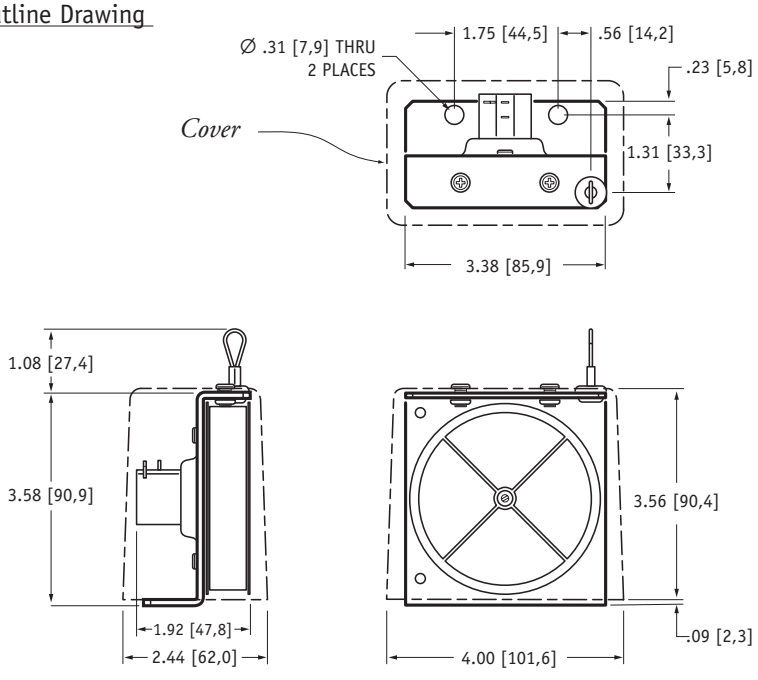
ENVIRONMENTAL

Operating Temperature	-25°C to +105°C
Temperature Coefficient of Potentiometer	+100ppm/°C, -150ppm/°C

The Z250 Cable-ExtensionTransducer is a compact, flexible and highly accurate linear position measurement device that can be engineered to OEM specifications.

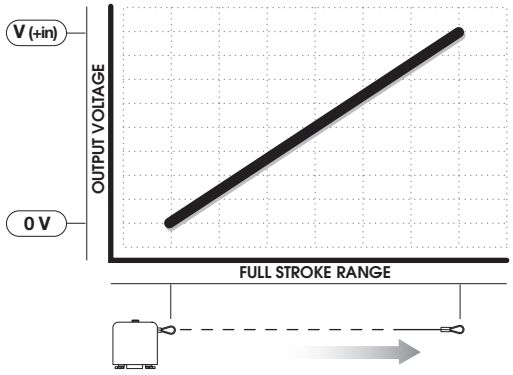
The standard Z250, can be simply modified to meet specific requirements. Circuits can be added for regulated output. Designs are available with and without covers and can be engineered for drop-in replacement of current assemblies. They allow for custom mounting, custom electrical connections and customer-specified life testing. Quantities are available as small as 100 units.

Outline Drawing



NOTE: All dimensions are in INCHES [MM]

Output Signal



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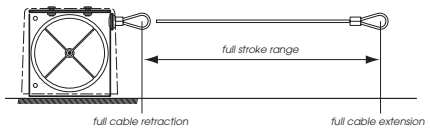
Order Form • Application Worksheet

Application

please provide a brief description of application. include exact stroke range, velocity of stroke and estimated number of cycles per year.

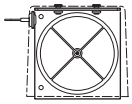
Full Stroke Range

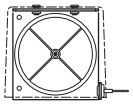
select available range or specify complete requirements

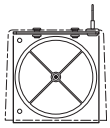


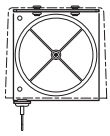
full stroke range (mm):	**220**	**1200**	**2400**
spool circumference (mm):	250	250	250
potentiometer turns:	1	5	10

Measuring Cable Exit

 ☐ front

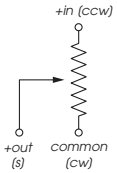
 ☐ rear

 ☐ up

 ☐ down

Potentiometer

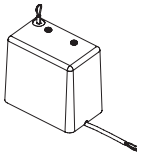
select value or specify complete requirements including value, voltage and linearity and estimated number of cycles per year

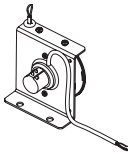


☐ 500 Ω ☐ 10K Ω ☐ other:

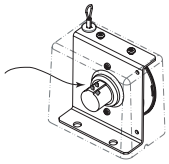
Enclosure

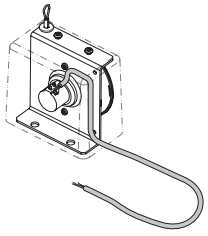
choose with or without cover or specify custom enclosure requirements

 ☐ cover

 ☐ no cover ☐ custom enclosure:

ELectrical Connection

 ☐ solder connection



☐ instrumentation cable
☐ length:
☐ connector
manufacturer:
manufacturer's part no.: