Z250

OEM Series • Voltage Divider Output

Ranges: 0–250 to 0–1000 mm
Compact, Open Frame Design
OEM Applications • Customer Specific Design
100-piece Minimum Order



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.

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.

ELECTRICAL

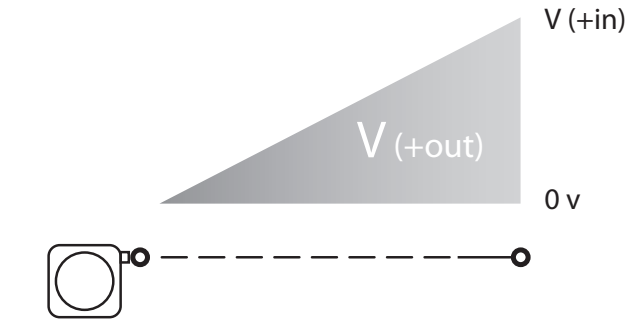
Input Resistance	500 or 10K ohms (±10%)
Power Rating, Watts	2.0 at 25°C derating to 0 at 105°C

ENVIRONMENTAL

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

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

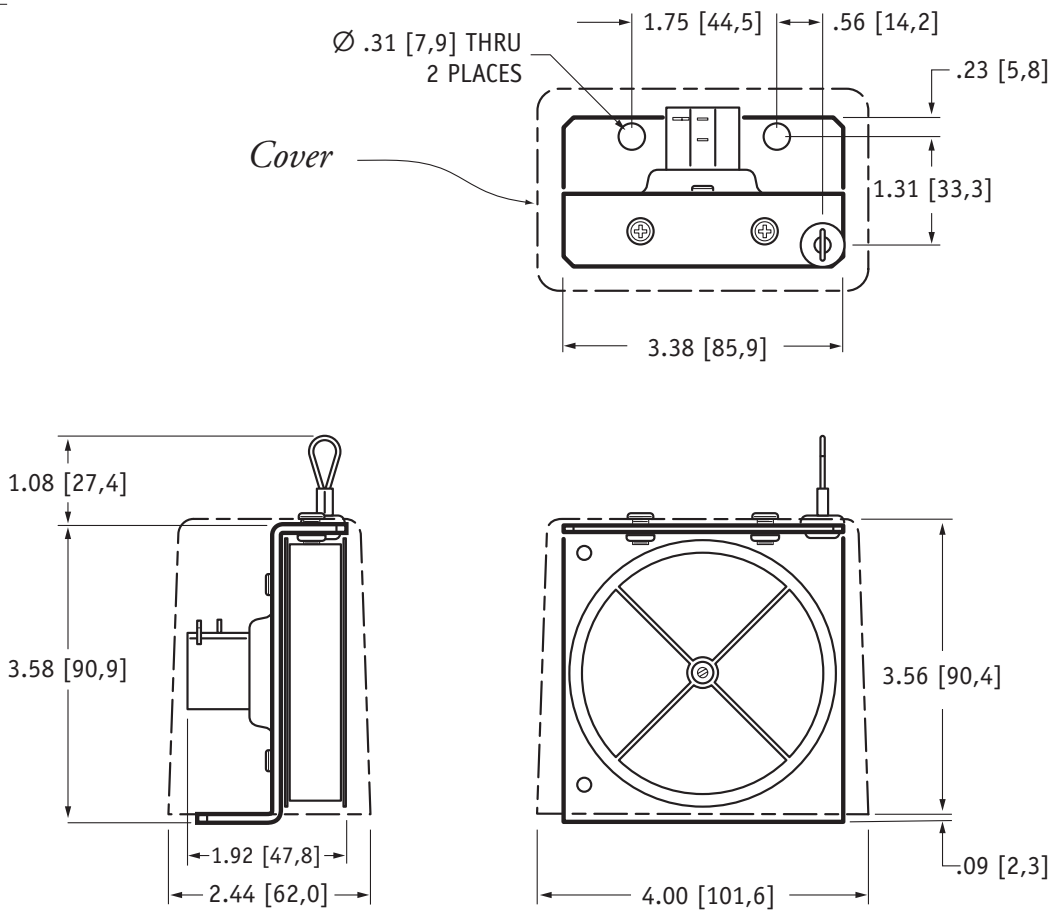
Output Signal



20630 Plummer Street • Chatsworth, CA 91311
tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799

celesco

Outline Drawing:



NOTE: All dimensions are in INCHES [MM]

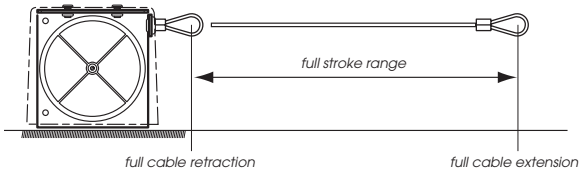
Ordering Information:

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:

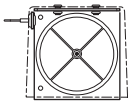
<select available range or specify complete requirements>



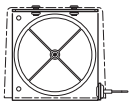
full stroke range (mm):	**220**	**1200**	**2400**
spool circumference (mm):	250	250	250
potentiometer turns:	1	5	10

Ordering Information (cont.):

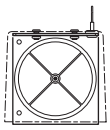
Measuring Cable Exit



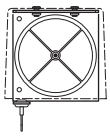
☐ front



☐ rear



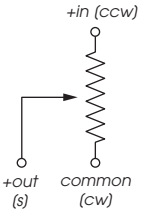
☐ up



☐ down

Potentiometer

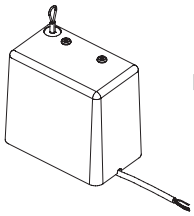
<select value or specify complete requirements including value, voltage and linearity and estimated number of cycles per year>



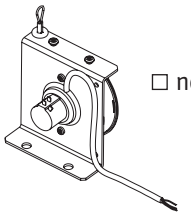
☐ 500 Ω ☐ 10K Ω ☐ other:

Enclosure

<select no cover or specity custom enclosure requirements>

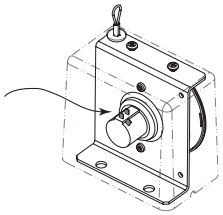


☐ cover

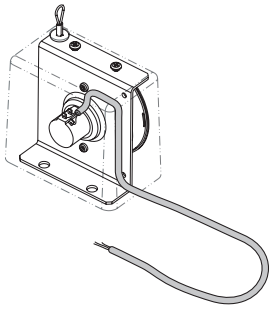


☐ no cover ☐ custom enclosure:

Electrical Connection



☐ solder connection



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

version: **3.0** last updated: **September 18, 2014**