Z115

Cable Actuated Sensor
OEM Series • Voltage Divider Output

Ranges: 0–100 to 0–1000 mm

Compact, Open Frame Design

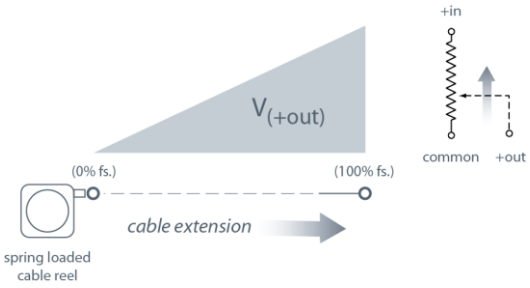
OEM Applications • Customer Specific Design

100-piece Minimum Order

The Z115 Cable-Extension Transducer is a compact, flexible and highly accurate linear position measurement device that can be engineered to OEM specifications.

The standard Z115, 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.

Output Signal



General

Full Stroke Range	0-100 to 0-1000 mm
Spool Circumference	58 mm, 115 mm (range dependent)
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

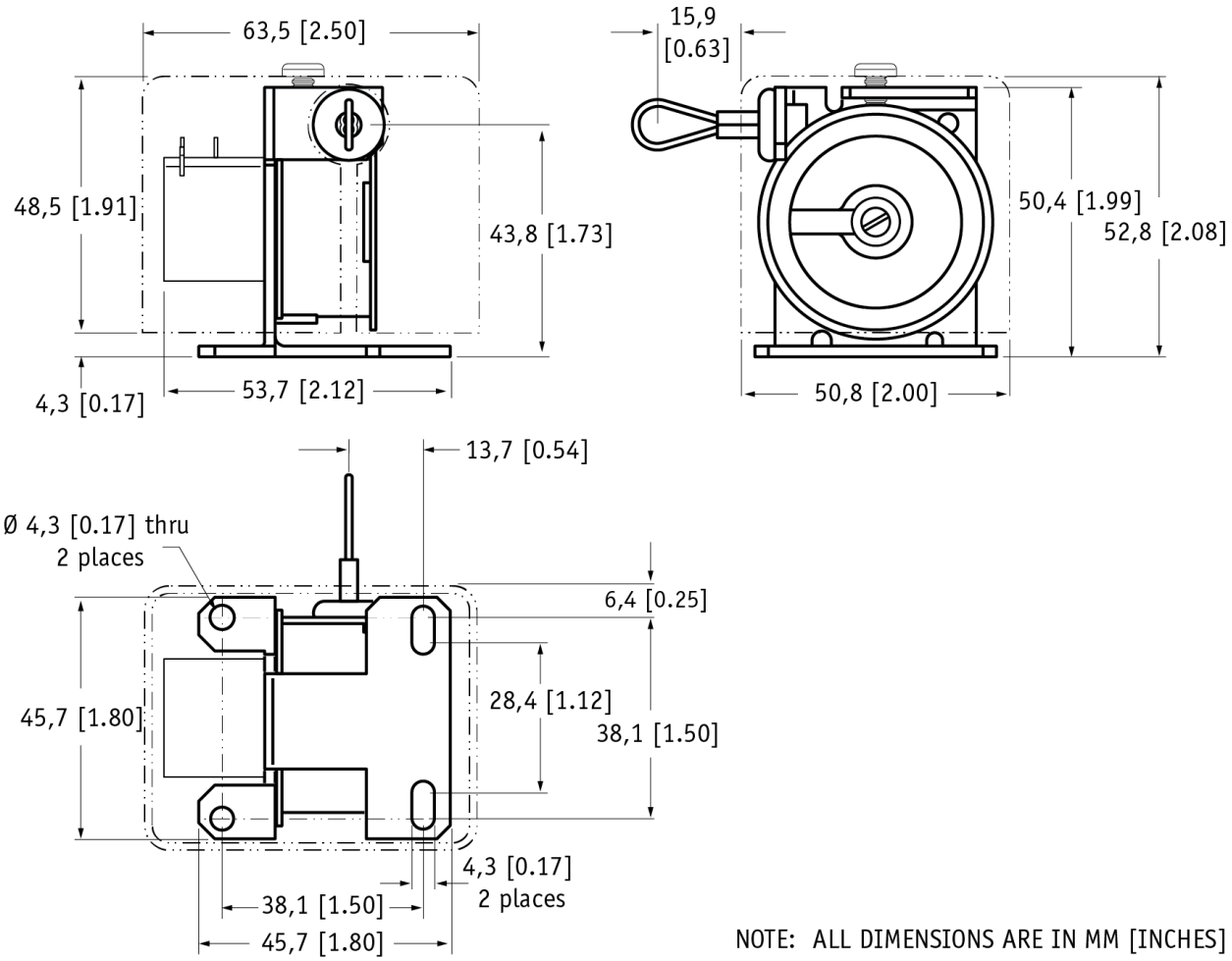
Input Resistance	500 or 10K ohms (+10%)
Power Rating, Watts	2.0 at 25°C derating to 0 at 105°C

Environmental

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

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

Outline Drawing



NOTE: ALL DIMENSIONS ARE IN MM [INCHES]

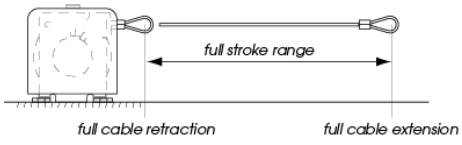
Ordering Information

Application:

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

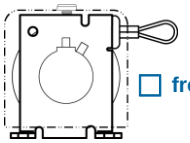
Full Stroke Range:

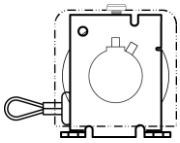
<Select available range or specify complete requirements>

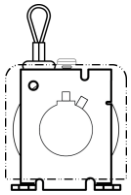


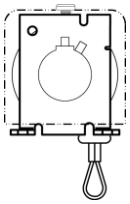
full stroke range (mm):	**50**	**100**	**275**	**550**	**1100**
spool circumference (mm):	58	115	58	58	115
potentiometer turns:	1	1	5	10	10
spring tension, ±30% (oz):	10	7	10	10	7

Measuring Cable Exit:


☐ front

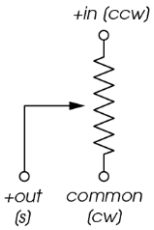

☐ rear


☐ up


☐ down

Potentiometer:

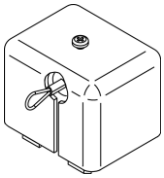
<Select value or specify complete requirements including value, voltage and linearity and estimated number of cycles per year>

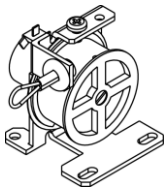


☐ 500 Ω ☐ 10K Ω ☐ other:

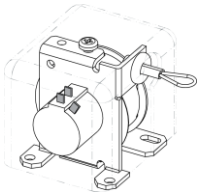
Enclosure:

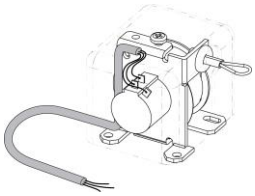
<Select no cover or specify custom enclosure requirements>


☐ cover ☐ no cover ☐ custom enclosure



Electrical Connection:


☐ solder connection


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

NORTH AMERICA

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