A125

OEM Series • Incremental Output

Ranges: 0–1000 to 0–1250 mm
Compact, Open Frame Design
OEM Applications • Customer Specific Design
100-piece Minimum Order



GENERAL

Full Stroke Ranges	0-1000 & 0-1250 mm
Spool Circumference	125 mm
Output Signal	incremental (quadrature) encoder
Accuracy	+0.04% of F.S.
Repeatability	+0.02% of F.S.
Resolution	0.8 to 20 pulses per mm*
Measuring Cable	0.034-in dia. nylon-coated stainless steel
Optional Measuring Cable	0.040-in. dia. thermoplastic
Sensor	incremental optical encoder
Frame Material	zinc-plated steel
Weight, max.	1 lb.

ELECTRICAL*

Encoder Output Driver Options	TTL-CMOS, open collector, line-driver
Output Channels	A, B and index (with and without compliments)
Input Voltage	4.5 to 26.4 VDC
Current Consumption	80 mA max.
Sink Current	20 mA max.

ENVIRONMENTAL*

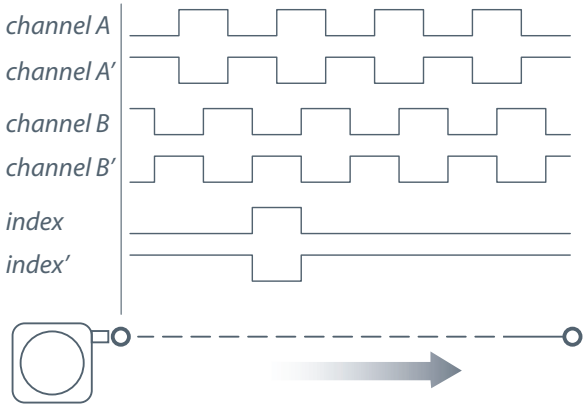
Operating Temperature	-10°C to +70°C
Storage Temperature	-30°C to +80°C
Humidity	RH 85%, no condensation
Vibration	10 ~ 55 Hz / 1.5 mm 2 hr.
Shock	30 g 11ms (X,Y,Z each 3 times)

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

The A125 Cable-ExtensionTransducer is an optical encoder-based compact, flexible and highly accurate position feedback transducer.

The standard A125 can be simply modified to meet specific OEM requirements. Just about any encoder type can be used for your specific requirment. Designs are available for new applications or as drop-in replacements of current assemblies. You can specify custom mounting, custom electrical connections and even customer-specified life testing. Quantities are available as small as 100 units.

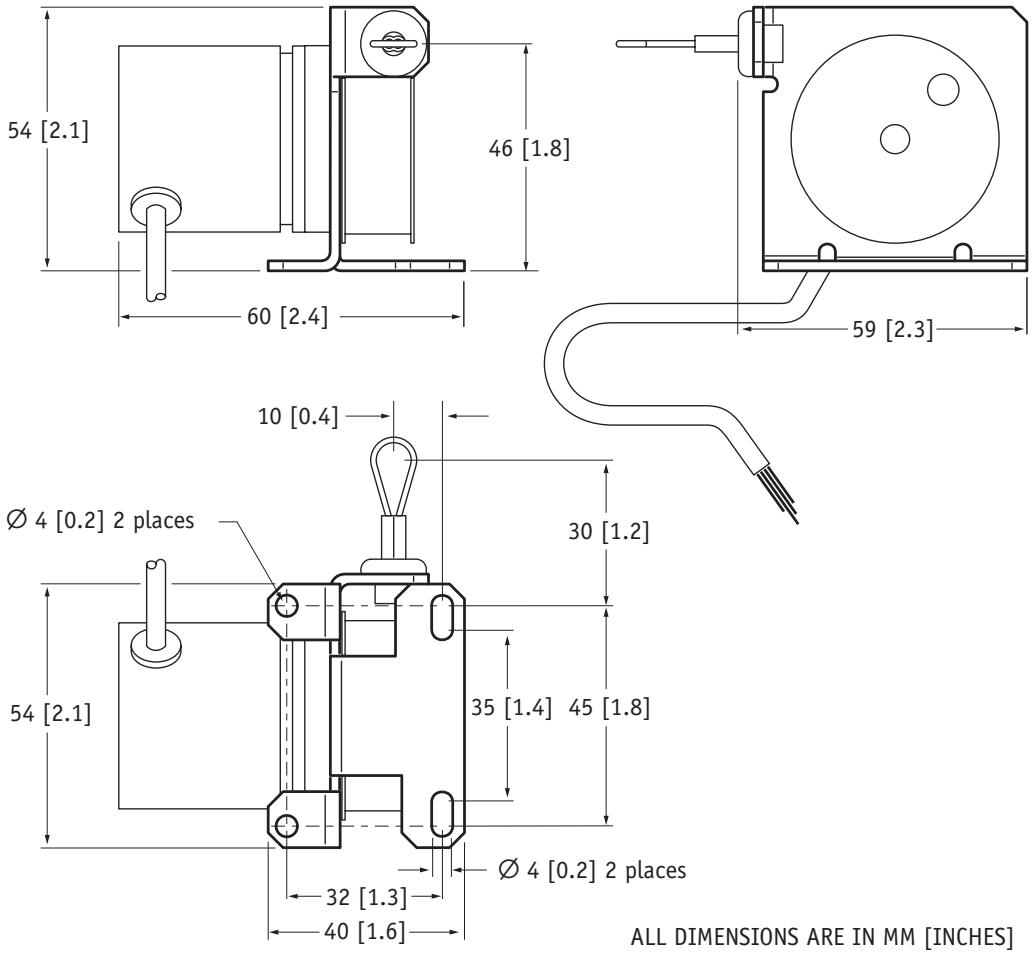
Output Signal Options



-- see ordering information for available channels

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

Outline Drawing:



ALL DIMENSIONS ARE IN MM [INCHES]

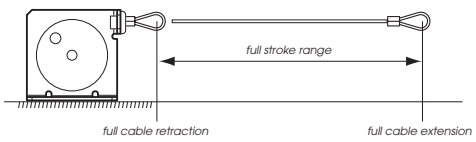
Ordering Information:

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>

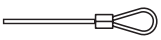


☐ 1000 mm

☐ 1250 mm

☐ other:

Measuring Cable:

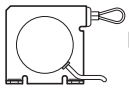


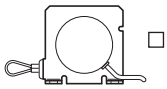
☐ 0.034" dia. nylon-coated stainless steel

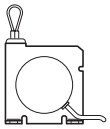
☐ 0.040" dia. thermoplastic

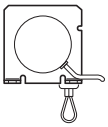
Ordering Information (cont.):

Measuring Cable Exit


☐ front

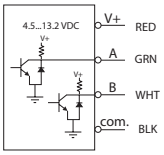

☐ rear


☐ up

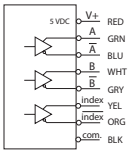

☐ down

Encoder

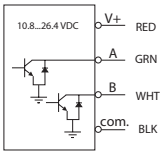
☐ TTL - CMOS compatible



☐ line driver



☐ open collector

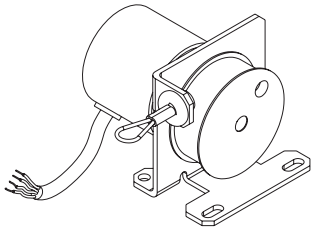


Resolution

☐ 0.8 pulses per mm
☐ 8 pulses per mm
☐ 16 pulses per mm
☐ 20 pulses per mm

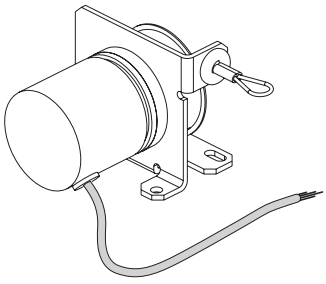
Enclosure

<select no cover or specity custom enclosure requirements>



☐ no cover
☐ custom enclosure:

Electrical Connection



☐ without connector
☐ with connector
  ☐ cable length:
  ☐ connector
    manufacturer:
    manufacturer's part no.: