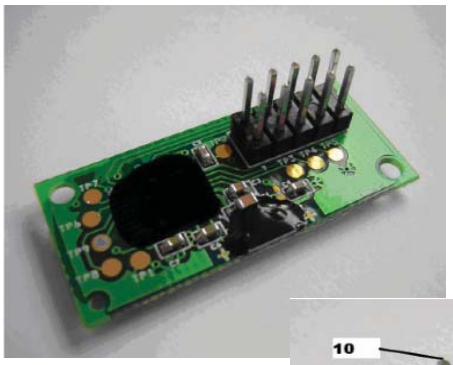
ED-31 Incremental Linear Encoder

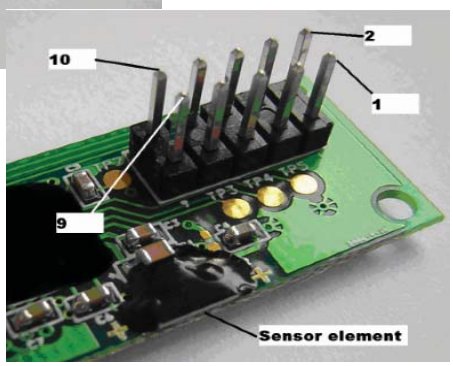
PRELIMINARY

DESCRIPTION

The ED-31 series board level incremental linear position sensors are designed for demanding OEM applications requiring low-cost linear position feedback. The ED-31 series sensor provides resolutions binary or decimal. Magnetic tapes are available from Measurement Specialties, upon request. Slew rates of up to five meters per second are possible without dropping counts.

Designed to operate in manufacturing environments, the sensor is unaffected by dust, dirt, oil and and changing ambient light conditions. Magnetic tape may be purchased in any length, as determined by the application requirements.





FEATURES

- Sealed IP67
- Low Power
- Low Cost / OEM
- No Range Limit
- Easy Installation and Set Up
- Tolerates Hostile Environments Like dirt and Vibration

OPTIONS

- Aluminum or Plastic Housing
- Regulated Input
- Various Outputs (see spec. table)

APPLICATIONS

- Medical Pumps
- String Pot Replacement
- XY Tables
- Web Control
- Hydraulic Cylinder Position
- Table Saw Position

specifications

Operating Voltage:	5V+/-5%
	24V+/-20%
Output:	Open Collector with internal 10K pull-up
	TTL
	Differential Line Driver
Reference:	With or without periodic index
Resolution:	Binary 4 to 1024
	Decimal 25 to 1000
	.08mm
Repeatability:	+/-1 increment
Power Consumption:	40mA max @24V unloaded
	Low power option 7mA typical @ 5V unloaded
Output current (per channel):	Open Collector: 34mA max sinking
	Push-Pull: 34 mA max source and sink
	Push-Pull low power option: 1mA max
	Line Driver: 800mA max (short circuit protected)
Output signals:	A,B, optional I
	A, /A, B, /B, optional I, /I
Air gap:	1mm typical
Travel speed:	5 m/s max.
Temperature range:	-40°.....+85°C operating
	-40°.....+125°C storage

PRELIMINARY

Measurement Specialties, Inc. • 1000 Lucas Way Hampton, VA 23666 USA • www.meas-spec.com • 757-766-1500 • 800-745-8008 • Fax 757-766-4297

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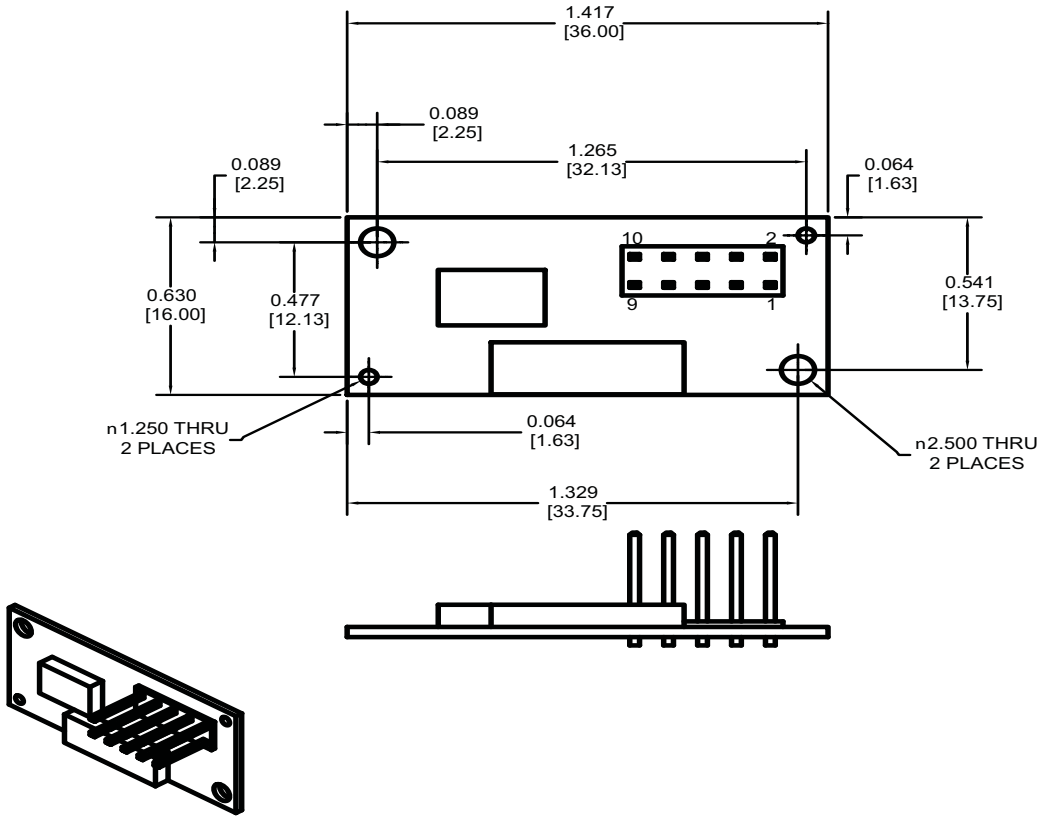
PRELIMINARY

dimensions



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