



FEATURES

- USB 2.0 Communication Link
- USB Bus-Powered (5V)
- Input/Output Short Circuit Protection
- Streaming ASCII Output

ENVIRONMENT

- Operating Temperature: -13°F to 185°F [-25°C to 85°C]
- Storage Temperature: -40°F to 257°F [-40°C to 125°C]

SPECIFICATIONS	
GENERAL	
Sampling Rate	Up to 4800 SPS
Bandwidth (Hz)	Sampling Rate (SPS) / 4
Internal Resolution	24 bits
Resolution (Noise Free)	See Chart
Nonlinearity	± 0.001% of FSR
Accuracy	± 0.001% of FSR
Output	Digital Packetized Data
Integrated Digital Filter	50 Hz/60 Hz Rejection (100 dB)
On Chip Memory	1 Kilobyte
Stored Calibration	Up to 16 Points
Weight	0.75 lb (340 g)
On Chip Sensor Profiles	Up to 7
PERFORMANCE	
Encoder Input	Quadrature Leading and Lagging Pulse
Speed Measurement	Up to 150k Pulses Per Second¹
Angle Measurement (a)	Up to 10k Pulses Per Rotation (PPR) ¹
Angle/Speed Measurement (Update Rate)	100 ms
STRAIN GAUGE mV/V INPUT	
Bridge Excitation	4.6 VDC
Standard Input Range	± 4 mV/V (factory default)
Optional Input Range	Up to \pm 400 mV/V
Min. Bridge Resistance	50 Ohm
Max. Bridge Resistance	5000 Ohm
VOLTAGE INPUT	
Supply Voltage	Selectable 5,9,10,12,15,18,20,24 VDC/1W
Standard Input Range	± 10 VDC (Factory Default)
Wiring Code	WC1
CURRENT INPUT	
Supply Voltage	Selectable 5,9,10,12,15,18,20,24 VDC/1W
Standard Input Range	0-20 mA (Factory Default)
CONNECTORS	
Sensor Connector	Binder 09 0132 90 12
Mating Connector	Binder 99 5129 00 12







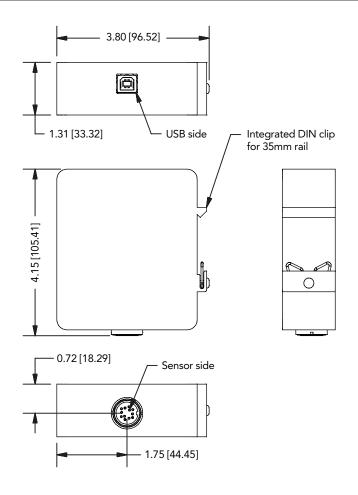


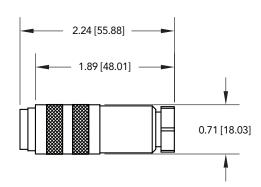




 $^{^{1}}$ Speed = Δ $\alpha \times 60$ / PPR

DIMENSIONS inches [mm]





SAMPLING RATE	
SAMPLES PER SECOND (SPS)	RESOLUTION (NOISE FREE BITS)
5	19
100	17
300	16.5
1200	15.5
2400	14.5
4800	13.5



12-PIN BINDER MATING CONNECTOR (99 5129 00 12)	
PIN	SIGNAL
A	+ EXCITATION
В	+ SIGNAL
С	– EXCITATION
D	– SIGNAL
F	SUPPLY OUTPUT
G	GROUND
Н	5V OUTPUT
J	- V
K	+ V
L	LEADING PULSE
M	LAGGING PULSE

ACCESSORIES

- SENSIT Software (FSH03189)
 - 14 Day Trial Available to download on FUTEK website. A license is required, per seat, after 14 days to benefit the features such as data logging, graphing, etc. Trial version turns into basic read-out ONLY after 14 days and a product key is required to enable the features.
- USB 2.0 Hi-Speed A/B Cable (GOD04123, included)
- 12 Pin Binder Male Plug, 99 5129 00 12 (GOD02975 , included)

Drawing Number: FI1348-E

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10 Thomas, Irvine, CA 92618 USA

Tel: (949) 465-0900 Fax: (949) 465-0905









