



FEATURES

- USB 2.0 Communication Link
- USB Bus-Powered
- Input/Output Short Circuit Protection
- Streaming ASCII Output
- Offered with DLL/Mac Dynamic Library
- CE approved for Medical/Aerospace
- Industrial metallic enclosure
- Integrated DIN rail mount
- Supports, VDC, mA, MV and TTL type input

SPECIFICATIONS

GENERAL

Sampling Rate	Up to 4800 SPS
Bandwidth (Hz)	Sampling Rate (SPS) / 4
Internal Resolution	24 bits
Resolution (Noise Free)	See Chart
Non Linearity	± 0.005% 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

ENCODER INPUT

Encoder Input	Quadrature Leading and Lagging Pulse (TTL)
Speed Measurement	Up to 150k Pulses Per Second ¹
Angle Measurement (α)	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	± 3.4 mV/V (factory default)
Optional Input Range	Up to ± 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)

CURRENT INPUT

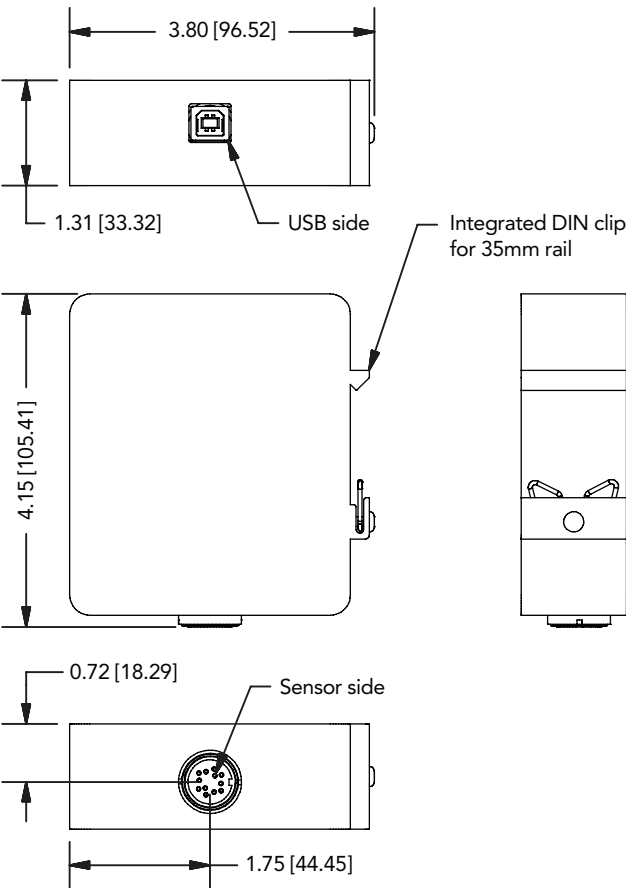
Supply Voltage	Selectable 5,9,10,12,15,18,20,24 VDC/1W
Standard Input Range	0-20 mA (Factory Default)

CONNECTORS

Sensor Connector	Binder 09 0132 90 12
Mating Connector	Binder 99 5129 00 12
USB 2.0 Connector	Type B

¹ Speed = $\Delta \alpha \times 60 / \text{PPR}$

DIMENSIONS inches [mm]



SPECIFICATIONS (continued)

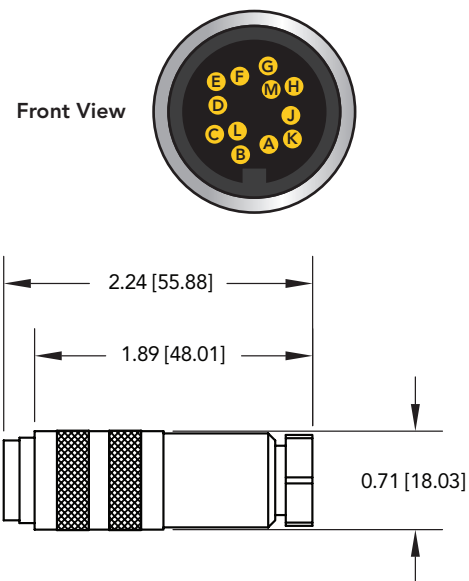
ENVIRONMENT	
Operating Temperature	-13°F to 185°F [-25°C to 85°C]
Storage Temperature	-40°F to 257°F [-40°C to 125°C]
CONFORMITY	
RoHS	2011/65/EU
CE	EN61326-1:2013; EN55011:2009 (Amended by A1:2010)

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

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)

12-PIN BINDER MATING CONNECTOR (99 5129 00 12)	
PIN	SIGNAL
A	+ EXCITATION / + SENSE
B	+ SIGNAL
C	– EXCITATION / – SENSE / SHIELD
D	– SIGNAL
F	SUPPLY OUTPUT
G	GROUND / SHIELD
H	4.75V OUTPUT
J	– V / 0 mA
K	+ V / 20 mA
L	LEADING PULSE
M	LAGGING PULSE






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RoHS



U.S. Manufacturer