FUTEK MODEL USB530 ITEM # FSH03774

Drawing Number: FI1358

EXTERNAL USB KIT (MV/V, AMPLIFIED, AND ENCODER INPUT)



SPS= Samples Per Second
INCH [mm]

FEATURES:

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

CONNECTORS:

1) USB Connector: Binder 09 0112 99 04
Mating Connector: Binder 99 5109 00 04
2) Sensor Connector: Binder 09 0132 90 12
Mating Connector: Binder 99 5129 00 12



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 15000 SPS
- 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
- Up to 16 Point Stored Calibration
- Weight: 0.9 lb (408 g)

Encoder Input

- Encoder Input: Quadrature Leading and Lagging Pulse
- Speed Measurement: up to 150k pulses per second¹
- Angle Measurement (α): up to 10k pulses per rotation (PPR)¹

Strain Gauge mV/V Input

- Bridge Excitation: 4.6 VDC
- Standard Input Range: ± 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 Output: 5-24 VDC (selectable)/ 1W
- Standard Input Range: ± 10 VDC (factory default)

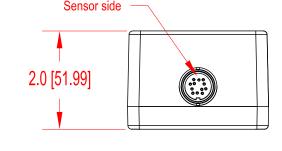
Current Input

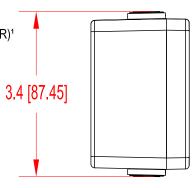
- Supply Output: 5-24 VDC (selectable)/ 1W
- Standard Input Range: 0-20 mA (factory default)

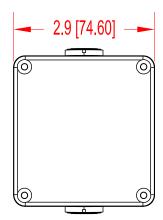
ACCESSORIES:

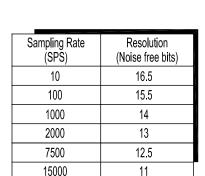
- SENSIT Software: FSH03189
 - 14 Day Trial Available to download on FUTEK website.
 - A license is required, per seat, after 14 days to benefit the features such as data logging, graphing, etc.
 - Trial version turns into basic read-out ONLY after 14 days and a product key is required to enable the features.
- FSH03570: USB Cable (Included)
- GOD02975: 12 Pin Binder Male Plug, 99 5129 00 12 (Included)

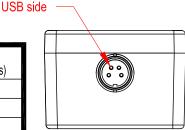
 1 Speed = $\Delta \alpha \times 60 / PPR$











This drawing is submitted exclusive use of the original

10 THOMAS IRVINE, CA 92618 USA 1-800-23-FUTEK (38835)

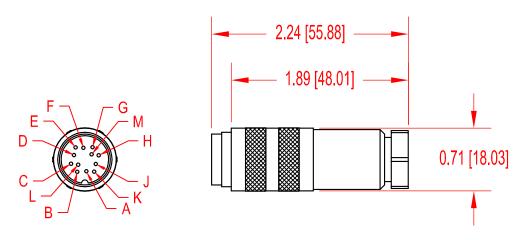
INTERNET: http://www.futek.com

ITEM # GOD02975

Drawing Number: FI1360

12 PIN BINDER CONNECTOR
FOR CONNECTION WITH FUTEK MODEL IHH500 & USB520

INCH [mm]



12 PIN BINDER MATING CONNECTOR 99 5129 00 12

Pin	Signal
А	+Excitation
В	+Signal
С	-Excitation
D	-Signal
F	Supply Output
G	Ground
Н	5V Output
J	-V
K	+V
L	Leading Pulse
М	Lagging Pulse