

FUTEK MODEL QIA125

QIA125, Three Channel Simultaneous Sampling System with SPI Output.



DRAWING NUMBER: FI1515-B

INCH [mm] | R.O.= Rated Output

Item #: QSH02040

Digital SPI Output Connector

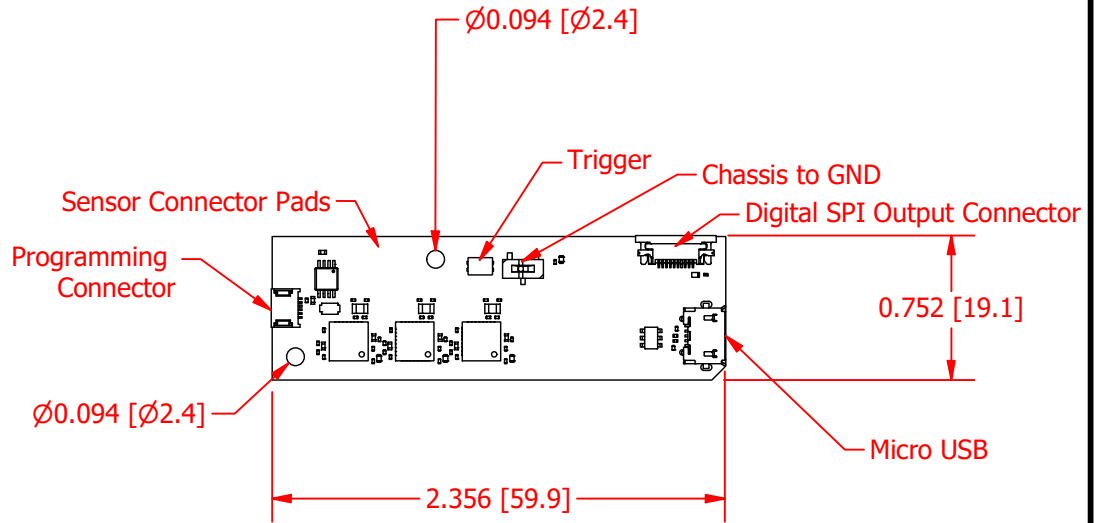
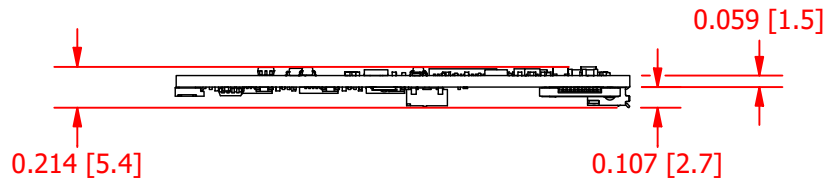
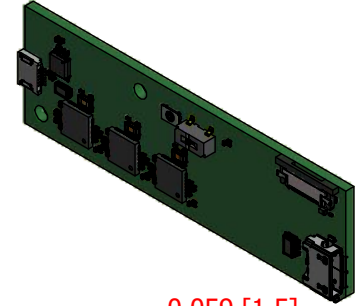
| Pin | Code | Pin | Code |
|-----|------|-----|------|
| 1 | VIN | 8 | CS |
| 2 | GND | 9 | DRDY |
| 3 | GND | 10 | TRIG |
| 4 | GND | | |
| 5 | MISO | | |
| 6 | MOSI | | |
| 7 | SCLK | | |

PROGRAMMING CONNECTOR

| Pin | Code |
|-----|------|
| 1 | MCLR |
| 2 | 3V3 |
| 3 | GND |
| 4 | DAT |
| 5 | CLK |
| 6 | N/C |

SENSOR CONNECTOR

| Pin | Code |
|-----|--------------|
| 1 | +Excitation |
| 2 | +Signal CH03 |
| 3 | -Signal CH03 |
| 4 | +Signal CH02 |
| 5 | -Signal CH02 |
| 6 | +Signal CH01 |
| 7 | -Signal CH01 |
| 8 | -Excitation |



SPECIFICATIONS:

Sensor Input:

- Excitation: 5VDC
- Bridge Resistance: 350Ω - 5000Ω per channel

Operating Temperature: -30°C to +80°C (-22°F to +176°F)

Power:

- Vin : 5VDC ± 10%
- Inrush Current: 700mA
- Power Consumption: 0.3W

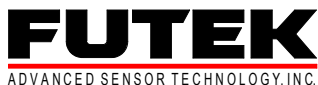
Digital Output:

- Sampling: 5 SPS - 4800 SPS
- Noise Free Resolution: 18.1 bits - 12.7 bits
- Offset Error Drift: 5nV/°C
- Gain Error Drift: 1ppm /°C
- SPI Output:
 - Voltage: 3.3VDC
 - Clock Speed: 4MHz to 8MHz
 - Word Size: 8 bits
 - Stored Calibration: 12 points per channel
- USB Output (Compatible with FUTEK Software)
- Fault Detection Mode:
 - Short/Open circuit detection (For 1000Ω Bridge only)



SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592
 Tel: (65) 6561 0488 Fax: (65) 6562 0588
 Email: sales@scigate.com.sg Web: www.scigate.com.sg
 Business Hours: Monday - Friday 8.30am - 6.15pm



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10 THOMAS
 IRVINE, CA 92618 USA
 +1 (949) 465-0900

INTERNET:
<http://www.futek.com>
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