

# FUTEK MODEL QIA121

High Speed & High Resolution Programmable  
Analog Amplifier 

DRAWING NUMBER: FI1362-A

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

Item#: See Table 1

## FEATURES

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

## 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]

## ACCESSORIES

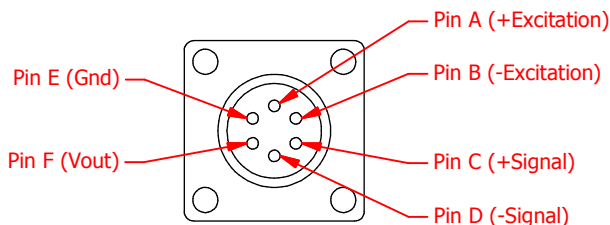
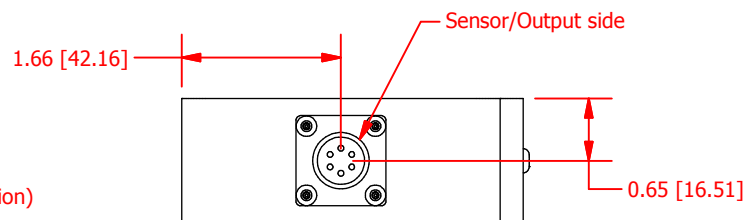
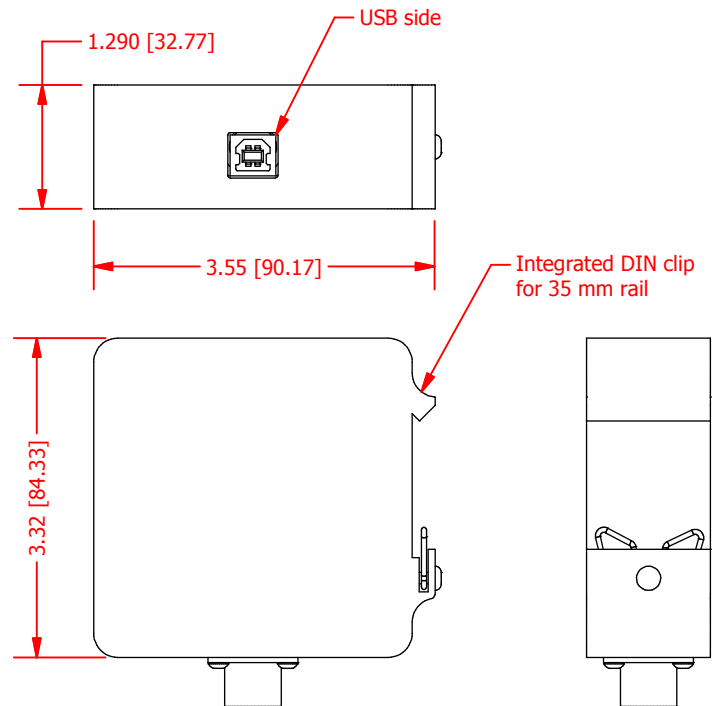
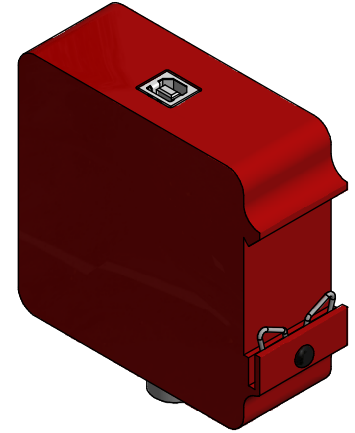
- GOD04123: USB 2.0 Hi-Speed A/B Cable (Included)
- GOD00046: 6 Pin Bendix Mating Connector, PT06A-10-6S-SR (Included)

## SPECIFICATIONS

Bandwidth	See Table 1
Bipolar Output	Software Selectable $\pm 5$ or $\pm 10$ VDC
Differential Input	$\pm 0.5$ - $\pm 4$ mV/V
Bridge Excitation	Software Selectable 5-10 VDC
Gain Adjustment	Software Selectable
Offset Adjustment	Software Selectable
Integrated Shunt	Software Selectable
CMRR	120 db
Analog Noise Output	< 10 mVp-p
Internal Resolution	24 bit
Noise Free Bits	up to 17 bits
Sampling Rate	Software Selectable (See Table 2)
ASCII Output Format	16 Character Hex Format
Integrated Pigtail Filter	50/60 Hz Rejection

Item #	Bandwidth
QSH01779	60 Hz
QSH01780	15 kHz

Sampling Rate	Resolution (Noise Free Bits)
5	17
50	16
100	16
300	15.5
1200	15
2400	14
4800	13



## CONNECTORS

Sensor Connector: Bendix PT02A10-6P  
Mating Connector: Bendix PT06A-10-6S-SR