

FUTEK MODEL IAA200

General Purpose DIN Rail Current Transmitter, DC Powered, Universal Strain Gage Signal Conditioner



DRAWING NUMBER: FI1364

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

Item#: FSH03864

FEATURES

- Bipolar Output, Differential Input
- 4-20 mA Output
- Bridge Excitation: 5 or 10 VDC (DIP Switch)
- Ranges: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 10.0 mV/V (DIP Switch)
- 256 Selectable Shunt Combinations: 30kΩ, 43.7kΩ, 60.4kΩ, 87.6kΩ, 100kΩ, 150kΩ, 300kΩ, 432kΩ (DIP Switch)
- Externally Accessible Shunt Cal Activation Button
- Digitally Controlled Remote Shunt
- Internal Span and Offset Potentiometers
- Sensor Polarity Reversal DIP Switch
- Zero Shift DIP Switch
- Weight: 0.23 lb (104 g)

ENVIRONMENT

Operating Temperature: 32°F to 158°F [0°C to 70°C]
 Storage Temperature: -40°F to 185°F [-40°C to 85°C]
 Relative Humidity: 95% at 100°F [39°C]

SPECIFICATIONS

Parameter	Min	Typ	Max	Unit
Power Supply	12.5		26	VDC
Current Consumption		30		mA
Output Impedance		500		Ohms
Sensor Impedance	350		5000	Ohms
Bandwidth (Setting 1)		1000		Hz
Bandwidth (Setting 2)		10000 ⁽¹⁾		Hz
Bandwidth (Setting 3)		25000 ⁽²⁾		Hz
Common Mode Rejection Ratio	120			dB
Noise		15		mVp-p
Output Span range	-10		10	% of RO
Output Zero range	-10		10	% of RO
Gain Drift with Temperature	-25	x	25	PPM of FSR
Gain Non-Linearity	-0.001	x	0.001	% of FSR
Zero Drift with Temperature	-25	x	25	PPM of FSR

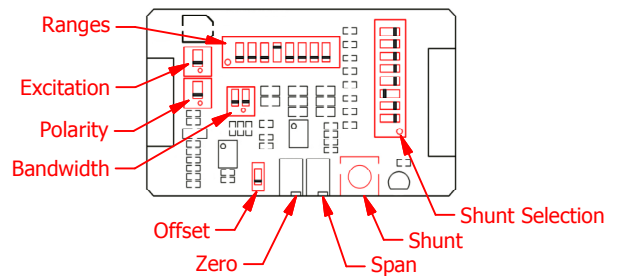
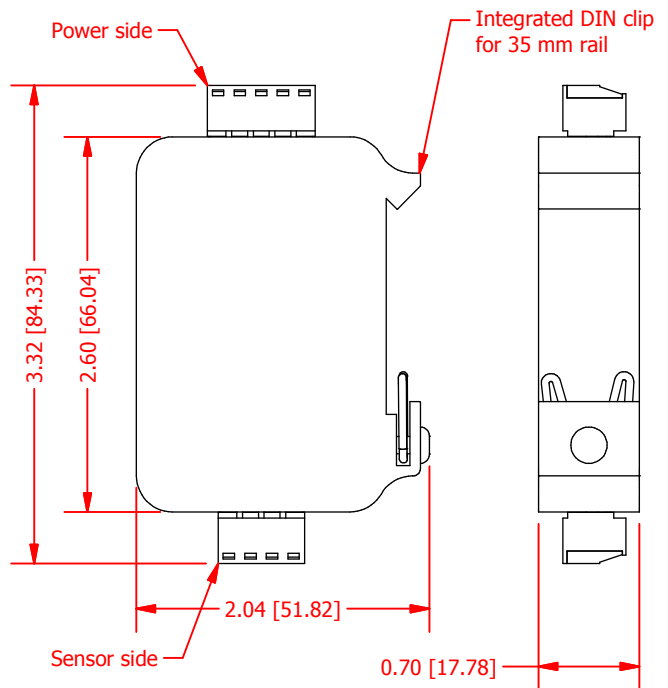
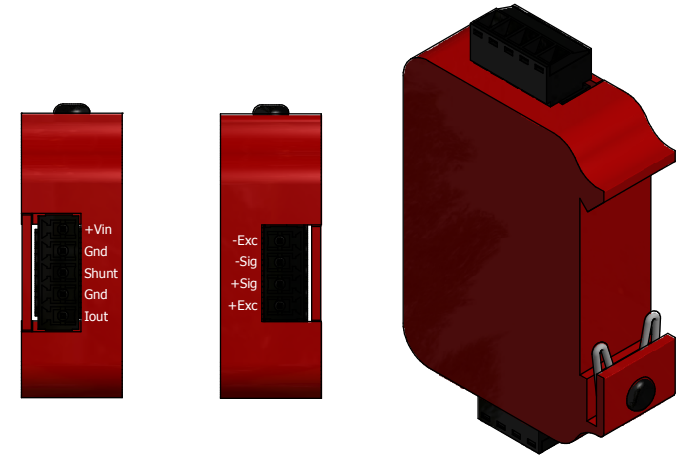
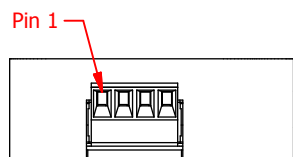
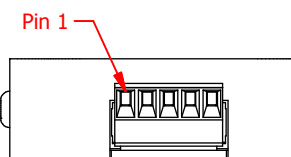
(1) Only for Sensitivity of 1.5 mV/V or Greater
 (2) Only for Sensitivity of 1.0 mV/V or Greater

CONNECTIONS

Power Side	
Pin #	Wiring Code
1	+Vin
2	Gnd
3	Shunt
4	Gnd
5	Iout

Sensor Side	
Pin #	Wiring Code
1	+Excitation ⁽³⁾
2	+Signal
3	-Signal
4	-Excitation ⁽³⁾

(3) For 6 wire sensors, connect +SENSE to +EXCITATION and -SENSE to -EXCITATION



DO NOT CONNECT DEVICE TO POWER SUPPLY WHEN POWER SUPPLY IS ALREADY ON!

FUTEK
 ADVANCED SENSOR TECHNOLOGY, INC.

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

INTERNET:
<http://www.futek.com>
 SHEET 1 OF 1