



FEATURES

- Bipolar Output, Differential Input
- ± 5 or ± 10 VDC Outputs
- 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: 30k Ω , 43.7k Ω , 60.4k Ω , 87.6k Ω , 100k Ω , 150k Ω , 300k Ω , 432k Ω (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
- IPC-A-610 Class 3 Assembly (Aerospace and Medical Grade Devices)

IMPORTANT NOTE: DO NOT CONNECT DEVICE TO POWER SUPPLY WHEN POWER SUPPLY IS ALREADY ON

SPECIFICATIONS

PARAMETER	MIN.	TYP.	MAX.	UNIT
Power Supply	16		26	VDC
Current Consumption		30 ¹	100	mA
Load Impedance	14000			Ohm
Sensor Impedance	350/75 ⁴		5000	Ohm
Bandwidth (Setting 1)		1000		Hz
Bandwidth (Setting 2)		10000 ²		Hz
Bandwidth (Setting 3)		25000 ³		Hz
Common Mode Rejection Ratio	120			dB
Noise		10		mVp-p
Output Span range	-10		10	% of FSR
Output Zero range	-10		10	% of FSR
Gain Drift with Temperature	-25		25	PPM of FSR
Nonlinearity	0.01		0.01	% of FSR
Zero Drift with Temperature	-25		25	PPM of FSR
Operating Temperature	32 [0]		158 [70]	°F [°C]
Storage Temperature	-40 [-40]		185 [85]	°F [°C]
Relative Humidity		95% at 100 [39]		°F [°C]

PHYSICAL FEATURES

Material	Stainless steel cover with aluminum body fastened by magnets
Protection	IP50
Weight (approx.)	0.23 lb (104 g)
Power	LED Indicated

CONFORMITY

RoHS	2011/65/EU
CE	EN61326-1:2013; EN55011:2009 (Amended by A1:2010)



¹ Stand-alone current consumption. Adding the strain gauge and output current will increase current consumption

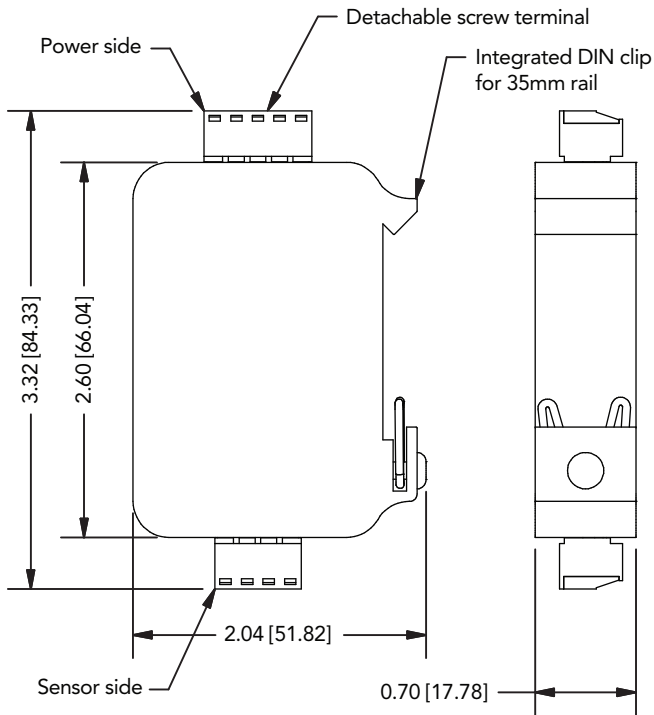
² Only for Sensitivity of 1.0 mV/V or Greater

³ Only for Sensitivity of 1.5 mV/V or Greater

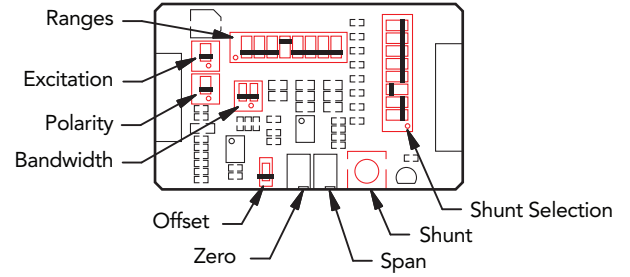
⁴ 350 Ohms for 5 V excitation and 75 Ohms for 10 V excitation

Model IAA100

DIMENSIONS inches [mm]



DIP SWITCHES CONFIGURATION



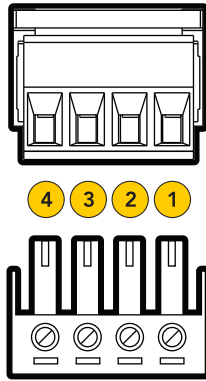
SENSOR SIDE

PIN WIRING CODE

1	+ EXCITATION
2	+ SIGNAL
3	- SIGNAL
4	- EXCITATION/SHIELD ⁴

⁴ For 6 wire sensors, connect +SENSE to +EXCITATION and -SENSE to -EXCITATION.

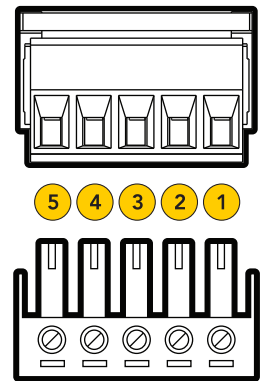
Note: Sensor cable shield connections should be grounded on one end, either the sensor side or the IAA sensor input side, to avoid potential ground loops.



POWER SIDE

PIN WIRING CODE COLOR

1	+Vin	Power Supply	Red
2	Gnd	Power Ground/Shield	Black
3	Shunt	Remote Connection	Orange
4	Gnd	Output Ground/Shield	Blue
5	Vout/Iout	Output Signal	Green



Drawing Number: FI1363-H

FUTEK reserves the right to modify its design and specifications without notice.

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RoHS



U.S. Manufacturer