



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: $30k\Omega$, 43.7kΩ, 60.4kΩ, 87.6kΩ, 100kΩ, 150kΩ, $300k\Omega$, $432k\Omega$ (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
- Class 1 Certification for 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	12.5		26	VDC
Current Consumption		30¹	100	mA
Output Impedance		1		Ohms
Sensor Impedance	350/754		5000	Ohms
Bandwidth (Setting 1)		1000		Hz
Bandwidth (Setting 2)		10000²		Hz
Bandwidth (Setting 3)		25000³		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
Non-Linearity	-0.005		0.005	% 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	9	5% at 100 [39]		°F [°C]
PHYSICAL FEATURES				
Material	Stainless steel co	ver with aluminu	um body faster	ed by magnets
Protection	IP50			
Weight (approx.)	0.23 lb (104 g)			
Power	LED Indicated			
CONFORMITY				
RoHS	2011/65/EU			
CE	EN61326-1:2013 Class 1 Certificat Devices			





 $\mathsf{Load} \cdot \mathsf{Torque} \cdot \mathsf{Pressure} \cdot \mathsf{Multi-Axis} \cdot \mathsf{Calibration} \cdot \mathsf{Instruments} \cdot \mathsf{Software}$













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

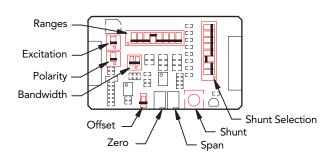
 $^{^{\}rm 4}$ 350 Ohms for 5V excitation and 75 Ohms for 10 V excitation

Model IAA100

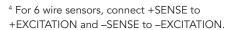
DIMENSIONS inches [mm]

Detachable screw terminal Power side Integrated DIN clip for 35mm rail 3.32 [84.33] 2.60 [66.04] 2.04 [51.82] Sensor side 0.70 [17.78]

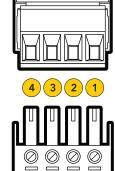
DIP SWITCHES CONFIGURATION



SENSOR SIDE PIN# **WIRING CODE** 1 + EXCITATION 2 + SIGNAL 3 - SIGNAL - EXCITATION/SHIELD4 4



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.



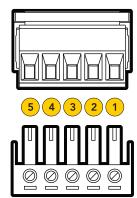
POWER SIDE

PIN # WIRING CODE

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

Power is 12.5VDC to 26VDC.

Note: IAA100 minimum power supply is 14VDC for Output load <1500 Ohms. All grounds are connected together and pass through. Power and instrument cable shield connections should be grounded on one end, either at the power and instrument side, or the IAA side, to avoid potential ground loops.



Drawing Number: FI1363-E

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