FSH03863



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: 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
- 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		30 ¹	100	mA	
Load Impedance	14000			Ohm	
Sensor Impedance	350/754		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		§5% 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) Class 1 Certification for Aerospace and Medical Grade				

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

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² Only for Sensitivity of 1.0 mV/V or Greater

³Only for Sensitivity of 1.5 mV/V or Greater

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



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Model IAA100



SENSOR SIDE

- PIN WIRING CODE
- 1 + EXCITATION
- 2 + SIGNAL
- 3 SIGNAL
- 4 EXCITATION/SHIELD⁴

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.

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POWER SIDE							
PIN		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/lout	Output Signal	Green				

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CIUDAD DE MÉXIC (55)-8995-3820

UCCONTE@LOGICBUS.COM WWW.LOGICBUS.COM WWW.LOGICBUS.COM WENTAS@LOGICBUS.COM SOPORTE@LOGICBUS.COM

DIP SWITCHES CONFIGURATION

