

**SPECIFICATIONS****GENERAL**

Item Number	FSH04936
Material	Aluminum Body/Stainless Steel Cover
Weight	0.23 lb [105 g]
IP Rating	IP40

INPUT

Input Type	Strain Gauge (Differential Input from ± 0.2 to ± 500 mV/V) ³
Internal Shunt Value	30, 43.7, 60.4, 87.6, 100, 150, 300, 432 k Ω ($\pm 1\%$)
Nonlinearity	$\pm 0.01\%$ of FSR ¹
Bridge Excitation	5 or 10 VDC (DIP Switch)
Min/Max Bridge Resistance	87.5 to 5000 Ω

OUTPUT

Gain Range	110 to 6300 ²
Output Range	4 - 20, & 12 ± 8 mA
Load Impedance	< 500 Ω
Bandwidth	See Chart ⁴
Noise	See Chart ⁴
Calibration Span/Offset range	$\pm 10\%$ of FSR ¹

POWER

Supply	12.5 to 26 VDC
Inrush Current	1 A (Max)
Power Consumption	1 W (Max)(Instrument Only)
Power Indicator	Green LED

ENVIRONMENT

Operating Temperature	-13° to 158°F (-25° to 70°C)
Storage Temperature	-40° to 185°F (-40° to 85°C)
Temperature Stability/Drift	± 25 ppm of FSR ¹ /°C

CONFORMITY

RoHS	2011/65/EU Compliant
CE	FCC 15.107:2022, FCC 15.109:2022, FCC 15.109(g):2022, ICES-003 Issue 7:2020, VCCI-CISPR 32:2016, EN IEC 61326-1:2021

FEATURES

- Uni-directional/bi-directional output, differential input
- 256 selectable shunt and gain combinations (DIP Switch)
- Digitally controlled remote shunt with externally accessible activation button
- Internal span and offset potentiometers
- Sensor polarity reversal DIP switch
- Zero shift DIP switch (selectable 0 and midpoint)
- Reliable spring loaded DIN clip design
- Removable magnetic cover for instrument setting access and protection
- External chassis connection ([Refer to Guide](#))
- Hot swappable with on-board ESD and over voltage/ current protection

MATERIAL & MANUFACTURING

- High-reliability PCB/assembly (IPC CLASS III)
- High-temperature rated material/BOM items
- Strictly controlled inspection, test, and calibration process
- Fully controlled handling/packaging process
- Extensive test and validation for 100% of production units
- Individual calibration report/certification for instruments and systems

APPLICATIONS

- Medical
- Aerospace
- Precision Industrial Automation
- Lab & Field Instrumentation
- Precision Manufacturing

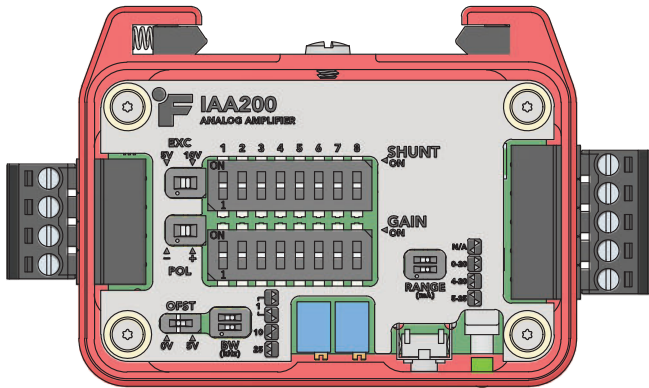
Sensor Solution Source

Load · Torque · Pressure · Multi-Axis · Calibration · Instruments · Software

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Model IAA200

DIP SWITCHES CONFIGURATION

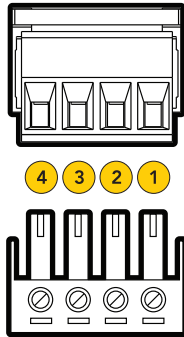


NOISE

Bandwidth kHz	Default Gain μA/p-p
1	15
10	20
25	25

SENSOR SIDE (item #GOD04254)

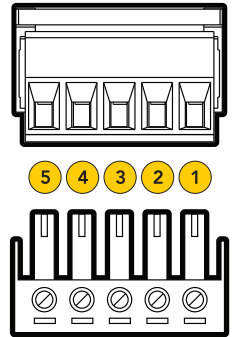
PIN	WIRING CODE	PIN FUNCTIONALITY
1	+ E	+ Excitation
2	+ S	+ Signal
3	- S	- Signal
4	- E/GND	- Excitation



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

POWER/OUTPUT (item #GOD04255)

PIN	WIRING CODE	PIN FUNCTIONALITY	COLOR
1	+VIN	Power Supply	Red
2	GND	Power Ground	Black
3	SHUNT	Remote Connection	Orange
4	GND	Output Ground	Blue
5	IOUT	Output Signal	Green

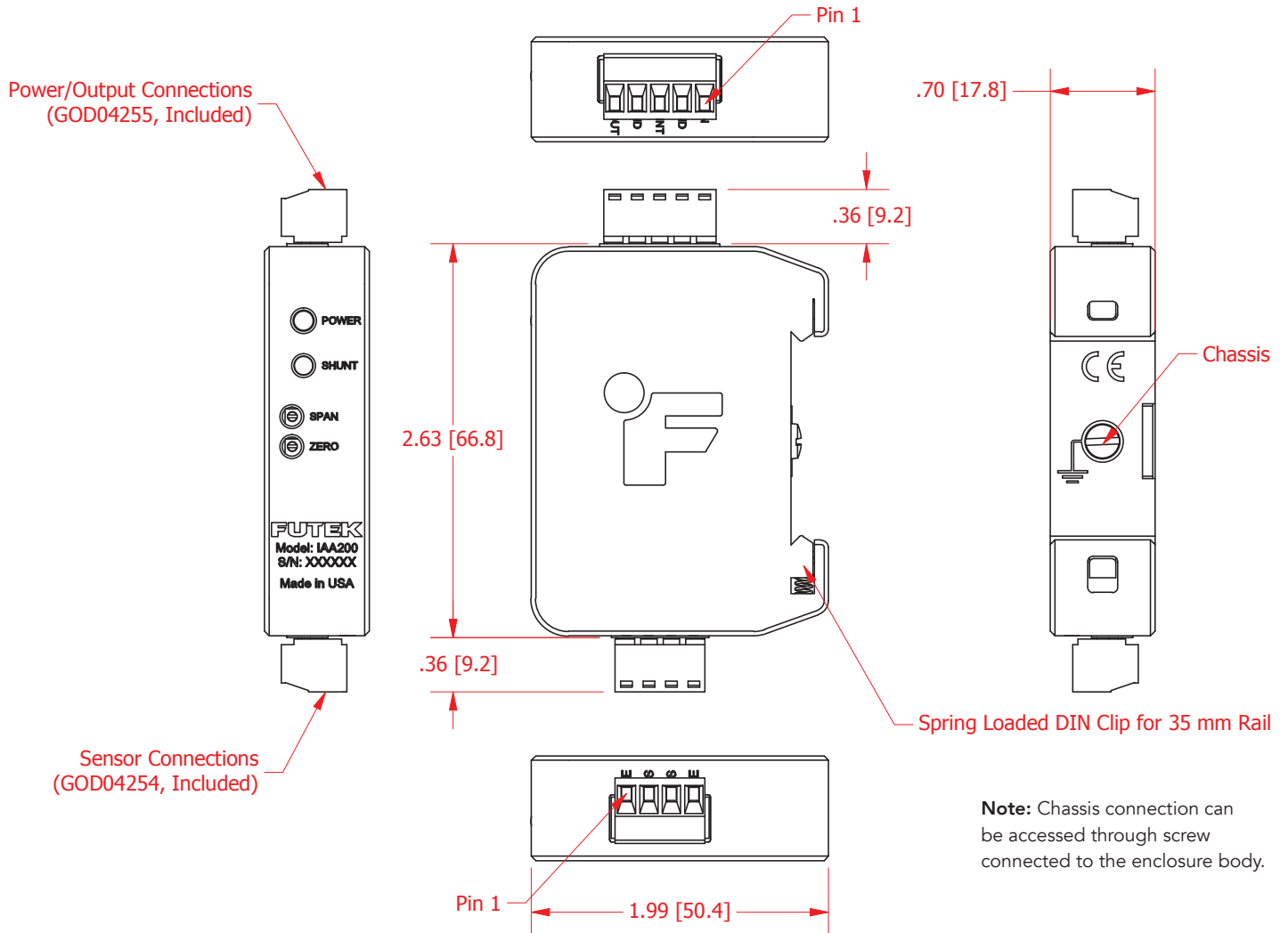


General Notes:

- ¹ FSR = Full Scale Range (Default Settings)
 - ² Gain = 2 If all switches are in OFF position
 - ³ The minimum differential input is determined based on a 10 V excitation and maximum gain to attain the maximum output range
 - ⁴ See "Noise" chart located in page 2 for detailed information
- All Grounds are internally connected
 Use Chassis for systems with cable Shield
 All parameters specified on this drawing have been validated for default settings (0-2 mV/V input at 1 kHz bandwidth with a 10 V excitation for 4-20 mA output) unless otherwise specified.

Model IAA200

DIMENSIONS inches [mm]



Note: Chassis connection can be accessed through screw connected to the enclosure body.

Drawing Number: FI1574-A

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