Honeywell

Model DV-05 DIN

Rail Mount In-Line Amplifier

DESCRIPTION

These in-line amplifiers feature DIN-rail mount enclosures with front accessible electrical connections and adjustments. Amplifiers are available for strain-gage transducers.

FEATURES

- DIN rail mount
- Unamplified transducer input
- Bridge-based transducer input
- 0 to ±5 V three-wire output with 11 Vdc to 28 Vdc power
- 3 Vdc or 5 Vdc excitation
- RFI, ESD protected
- CE approved

Model DV-05 DIN

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Number of channels	1
Case material	Plastic
Mounting	35 mm DIN
Certification	CE approved

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-29 °C to 82 °C [-20 °F to 180 °F]
Temperature, storage	-40 °C to 93 °C [-40 °F to 200 °F]

TRANSDUCER INTERFACE

Characteristic	Measure
Transducer type	Bridge-based sensor
Transducer excitation	3 Vdc or 5 Vdc @ 30 mA (short circuit protection)

AMPLIFIER CHARACTERISTICS

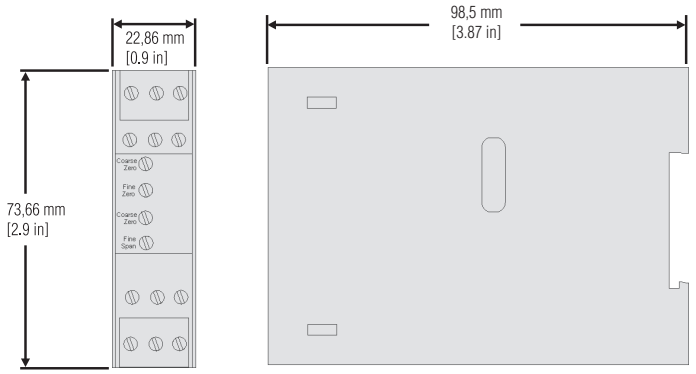
Characteristic	Measure
Supply voltage	11 Vdc to 28 Vdc
Current draw	60 mA
Zero adjustment range, coarse	±60 %
Zero adjustment range, fine	±10 %
Span adjustment range	Switch selectable 0.5 mV/V to 13.3 mV/V
Span adjustment range, fine	±20 %
Linearity	±0.01 %
Output	±5 Vdc
Output current	2 mA
Frequency response (-3 db)	dc 7000 Hz with 350 ohm bridge
	dc 2500 Hz with 5000 ohm bridge
Rise time (0 % to 90 %)	56 µs with 350 ohm bridge
	145 µs with 5000 ohm bridge
Signal-to-noise ratio	66 db
dc power supply rejection ratio	Greater than 110 db

Not RoHS compliant

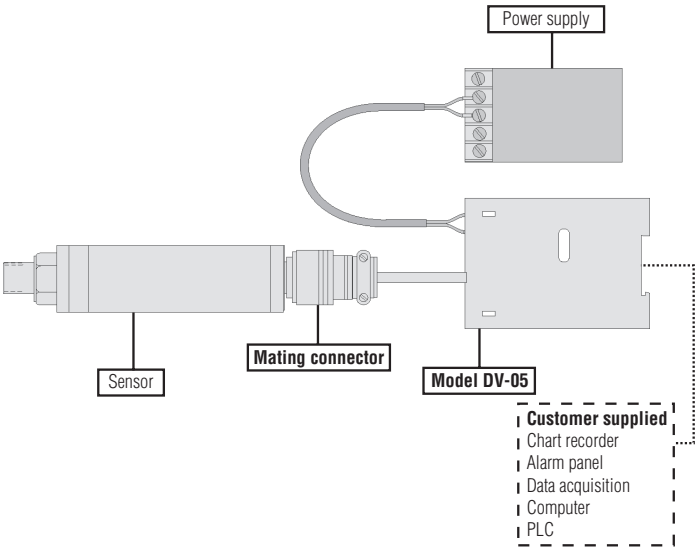
OPTION CODES

2-pole filter option	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.
58e, 2-pole filter setting	1 Hz 100 Hz 3 Hz 300 Hz 5 Hz 500 Hz 10 Hz 1000 Hz 20 Hz 2500 Hz (350 ohm bridge) 30 Hz 7000 Hz (5000 ohm bridge) 50 Hz

MOUNTING DIMENSIONS AND CHARACTERISTICS



TYPICAL SYSTEM DIAGRAM



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Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

⚠ WARNING

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's test and measurement products, call **+1-614-850-5000**, visit **http://measurementsensors.honeywell.com,** or e-mail inquiries to **info.tm@honeywell.com**

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