

SIGNAL ISOLATOR (v3) BSI236

DESCRIPTION

The BSI236 is an isolating converter providing true 3-way galvanic isolation up to 2kV rms. The BSI236 produces an isolated unipolar output signal from an input signal. The BSI236 comes in three, coding plug selectable models to accept either: Process, mV or Bipolar input signals. No special tools or components are required for range changing in the field. A 20Vdc/22mA sensor supply is available at the input section, this can be useful for loop powered field transmitters. Final calibration is trimmed using the front accessible zero and span 15-turn trim adjustments. Maximum current drive is 20mA and maximum voltage drive is 20V. The wide swing DC-power supply (8-60V) covers all popular DC sources. All units are fitted with a 500mS filter that can be link changed to 5mS for fast response. Surge protection for power supply and input is standard with all BASI modules



General Specifications

Size: Mounting: Housing material: Termination: Protection class: Weight: Protection class: Calibration accuracy: Front 'SPAN' adjust: Front 'ZERO' adjust: Linearity error: Long term drift: Temperature effect:

Operating temperature: Output drive:

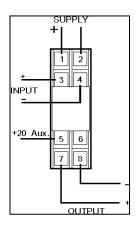
Input impedance:

Supply/Input/Output Isolation: Auxiliary Output: Electromagnetic compatibility:

ABS. Top mounted screw terminals. IP40 (IP55 Enclosure Opt). 120 g. IP40. <0.1%. ±25% typical. +20/ -10% typical. <0.1%. <0.1%. Typically 0.025% of span per °C. -10...+60°C. 10mA into 0 - 2kΩ, 20mA into 0 - 1kΩ. Current 51Ω. Voltage 2M7 Ω (10V/5V range). 560k Ω (2V/1V range). 140k Ω (250-1000mV ranges). mV/ 30k Ω (40-200mV ranges).

23.5W x 71.5H x 109D (mm).

Clip for 35mm DIN-Rail.

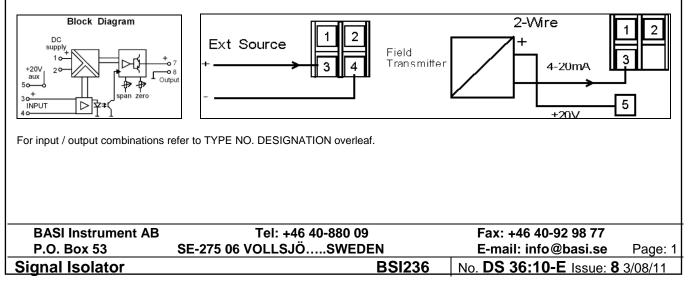


2kV r.m.s. 20Vdc with 22mA drive (Suitable for 2-wire transmitter supply). Complies with EN 50081-1, EN 50082-2, EN 61010-1

CE

Connections

When externally sourced signals are used terminal 3 is the positive input. When a 2-wire field transmitter is used, terminal 5 is a 20V power supply used to supply the loop current.





Refer to DS23632 for additional inp utput (Specify required range): — 1 = Table 6/ SW3, (4-20mA defaul tion: 1 = Direct. ptions: —		
= Factory default calibration unless s esponse time Table 1 Table 1 SW1/1 500mS X rocess input Table 2 Table 2 SW1 put 2 3 4 5 6 7 20mA X X X X X 20mA X X X X X X X X X X 20mA X X X X X X X X X X X X X X X X X X X	disable future use of the program link specified otherwise. Millivolt input Table 4 Table 4 SW1 Input 2 3 4 5 6 7 0-40mV X X X X X X 0-50mV X X X X X X 0-50mV X X X X X X 0-100mV X X X X X X 0-100mV X X X X X X 0-200mV X X X X X X 0-200mV X	 To change ranges 1. Disconnect power un-clip housing lid and withdraw unit from housing. 2. Set coding plugs as required. 3. Reassemble unit and connect power. 4. Adjust "Span and "Offs" pots to recalibrate. 5. Change the label information to the new input/output values. Coding Plug Location Diagram