



SIGNAL POWERED ISOLATOR v3 BSPI232

DESCRIPTION

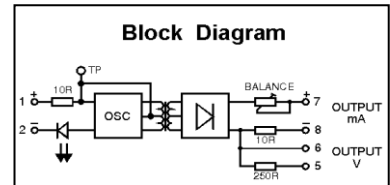
The BSPI232 signal isolator provides galvanic isolation where common mode voltages or earth loop problems occur. The BSPI232 is powered by the input signal, therefore it can only be offered in current input versions with a zero offset (4 - 20mA, 10 - 50mA). Typical output is 4-20mA but can be 1-5V by using different output terminals. A green L.E.D. on the module front gives a clear indication of input signal and will change its intensity in relation to input signal level. Load trim adjustment (full scale) is placed on the module front. Zero tracking is automatic and requires no adjustment. Facility for in-process monitoring is provided for input and output.

INPUT: Terminal 1(+) to Test Socket (-) 20mA = 200mV.
 OUTPUT: Terminal 8(+) to Terminal 6 (-) 20mA = 200mV.



General Specifications

| | |
|--------------------------------|--|
| Size: | 23.5W x 71.5H x 109D (mm). |
| Mounting: | Clip for 35mm DIN-Rail. |
| Housing material: | ABS. |
| Connection: | Screw terminals. |
| Weight: | 100 g. |
| Protection class: | IP40 (IP65 Enclosure opt.) |
| Repeatability: | <0.1% SPAN for 10 - 100%. |
| Linearity error: | <0.1% SPAN for 10 - 100% of range. |
| Temperature drift: | <0.02% per °C. |
| Response time: | 0.2 sec for T ₉₀ standard. |
| Input drive voltage: | 9 - 9.5V for 20mA. (480 Ω max). |
| Output load range: | 0 - 250 Ω. |
| Operating temp. range: | -10...+60°C. |
| Storage temp. range: | -20...+70°C. |
| Input/output isolation: | 2kV r.m.s. continuous. |
| Electromagnetic compatibility: | Complies with EN 50081-1, EN 50082-2, EN 61010-1 |



For dual channel or splitter applications refer to BDSI233

TYPE NO: BSPI232 - X X 0 0

Input: _____
 1 = 4 - 20mA.
 *) 2 = 10 - 50mA.
 *) 9 = Other (Specify).

Output: _____
 1 = 4 - 20mA / 1-5Vdc
 *) 2 = 10 - 50mA.
 *) 3 = 2 - 10V.
 *) 9 = Other (Specify).

*) = Price Extra.
 Note : combination SPI232-1200 is not available:

Set-Up Procedure

1. Connect input terminals 1 and 2.
2. Connect load to output terminals 7 & 8 (5 & 6 for voltage)
3. With 20mA input (200mV term.1(+)) / Test Socket (-) [1] adjust "LOAD" for 200mV on term.8(+)) / term.6(-) for 20mA current output or 5.0V across terminals 5(+) and 6(-) for voltage output (link 5/7).

Front Control Explanation

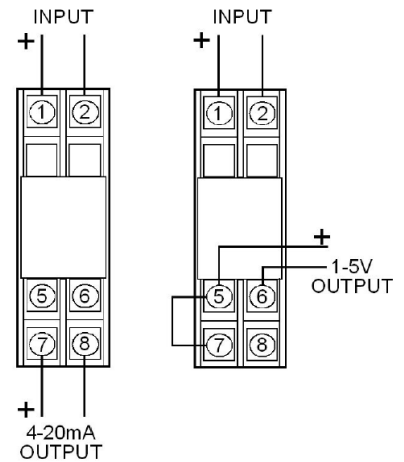
Test socket.
 Input loop continuity indication.
 Output load balance adjustment.

In-Circuit Testing:

Input: terminal 1 (+) / test socket = 200mV @ 20mA.
Output: terminal 6 (+) / terminal 8 = 200mV @ 20mA.

In the interest of development and improvement, BASI reserve the right to amend, without notice, details contained in this publication. BASI will accept no legal liability for any errors, omissions or amendments.

Connection Diagrams



Wiring Example

