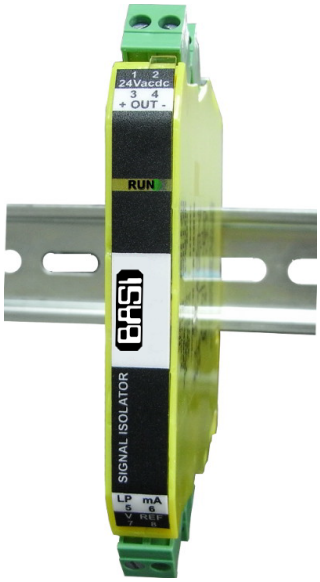
# Signal Isolator BSL339

The BSL339 is a software configurable isolating converter providing true 3-way galvanic isolation up to 2500Vrm s for standard process signals. The programming socket is under the front door flap. The BSL303 USB isolator is used with the BSL300 Windows software to display real time input output and calibration parameters.
Key features of the BSL339;




- Small 12.4mm case size.
- Wide range AC/DC power supplies.
- 15 Input ranges and 11 output ranges.
- Precision digital measurement and digital to analogue output after the isolation barrier. This removes all errors associated with the isolation
- process and ensures faster input to output response.
- Input linearisation.
- User engineering units and scaling.
- Supply for power loop input devices.
- Reverse and direct acting output.
- Output signal limiting.
- Input filter for fast or slow response time.

## Ordering Detail

| Order Code | Supply |
|---|---|
| BSL339-10 | 80-300Vdc / 80-280Vac 50/60Hz |
| BSL339-20 | 10V - 60Vdc / 16 - 42Vac 50/60Hz |

## General Specifications

| | |
|---|---|
| Size: | 12.4W x 113H x 108D (mm). |
| Mounting: | Clip for 35mm DIN-Rail. |
| Housing material: | ABS / Polycarbonate blend |
| Connection: | Pluggable screw terminals. |
| Weight: | 85g (including packaging). |
| Operating temperature: | -5...+65˚C. |
| Temperature drift: | 0.01% per ˚C. |
| EMC: | AS/NZS 4251.1 (EN 50081.1) |
| Load change effect: | < 0.05% (current limited to 22mA) |
| Response time: | LED on = 400mS, LED off = 25mS. |
| Output ranges: | 0-1mA, 0-10mA, 0-20mA, 4-20mA, 0-1V, 0-2V, 0-5V, 1-5V, 0-10V, 2-10V, 0-20V |
| Output drive: | 10mA into 0 - 2kΩ, 20mA into 0 - 800Ω. |
| Input ranges: | 0-1mA, 0-10mA, 0-20mA, 4-20mA, 0-50mA, 0-1V, 0-2V, 0-5V, 1-5V, 0-10V, 2-10V, 0-20V, 0-50V, 0-100V, 0-200V. |
| Input impedance: | 1mA/1kΩ, 10mA/100Ω, 100mA/36Ω (Term 6). Voltage input / > 1MΩ (Term 7). |
| Loop power supply: | 19V / 24mA |
| Overload continuous: | |
| Voltage input: | 900V MAX. |
| Current input: | 100mA MAX. |
| Noise immunity: | 130dB CMRR. |
| Input/output isolation: | >2.5kVrms. |
| Protection class: | IP40. |
| Calibration accuracy: | <0.1%. |
| Linearity: | <0.1%. |

## Connection and Controls