

Signal Splitter BSL335

The BSL335 is a field configurable isolating converter/splitter providing true 4-way galvanic isolation up to 1800Vrms for standard process signals. On standard models are 3 x 16 position encoder switches under a door flap to set input and output ranges. All models also have a user range set using the BSL300 configuration software.

- Small 12.4mm case.
- Wide range ac/dc power supply.
- 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.
- (When fitted) 1100 input to output range combinations using the three encoder switches mounted under the top door, no recalibration is necessary.
- Models supplied without the range switches are supplied at a reduced cost and provide a higher level of security on range / calibration settings.
- All models include an independent user range.

On models fitted with the "Extended User Range Settings" have the following additional capabilities;

- Input linearisation.
- User engineering units and scaling.
- Reverse and direct acting.
- Signal limiting.
- 20 character name.



Order Code **BSL335-X X**

Supply:

2 = 10V - 60Vdc / 16 - 42Vac 50/60Hz

Functionality:

0 = Switch Ranges + User Range.
2 = Switch Ranges + Extended User Range Settings.

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.
Protection class:	IP40.
Calibration accuracy:	<0.1%.
Linearity:	<0.1%.
Operating temperature:	-5...+65°C.
Temperature drift:	0.01% per °C.
Load change effect:	< 0.05% (limited to 22mA)
Response time:	500ms slow/ 25ms fast.
Output drive:	10mA into 0 - 2kΩ, 20mA into 0 - 800Ω.
Input impedance:	Current input / < 100Ω. Voltage input / > 1MΩ.
Loop power:	19V / 24mA (Input 4 = 4-20mA loop input)
Overload continuous:	
Voltage input:	30V MAX.
Current input:	100mA MAX.
Noise immunity:	130dB CMRR.
Input/output isolation:	>1.8kVrms.
EMC:	AS/NZS 4251.1 (EN 50081.1)

The user range set using the BSL300 software is in operation when all three switches are in the F position or when no switches are fitted. No test equipment is required when changing ranges.

In the interest of 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.

Switch IP and OP Selections

Range switches are not fitted on all models

IP	Input	OP	Outputs 1 & 2
1	0-10mA	1	0-10mA
2	0-20mA	2	0-20mA
3	4-20mA	3	4-20mA
4	4-20mA LP	4	0-1V
5	0-1V	5	0-2V
6	0-2V	6	0-5V
7	0-5V	7	1-5V
8	1-5V	8	0-10V
9	0-10V	9	2-10V
A	2-10V	A	0-20V
B	0-20V		
F	User range	F	User Range

Connection and Under Door Controls

