


Signal Isolator v1 SL332

The SL332 is a field configurable isolating converter providing true 3-way galvanic isolation up to 2500Vrms for standard process signals. Input and output range are set using two 16 position encoder switches that are accessed under a door flap mounted on the front of the module.

The key features of the SL332 are;

- Smaller case style.
- Has a wide range AC/DC power supply.
- Capable of changing ranges and settings without using test equipment or opening the case.

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:	114g (including packaging).
Protection class:	IP40.
Calibration accuracy:	<0.1%.
Linearity:	<0.1%.
Operating temperature range:	0...+65°C.
Temperature drift error:	0.01% per °C.
Supply voltage:	See below
Load change effect:	< 0.05% (current limited to 22mA)
Response time:	400mS / 25mS.
Output drive:	10mA into 0 - 2kΩ, 20mA into 0 - 800Ω.
Input impedance:	1mA/1kΩ, 10mA/100Ω, 100mA/36Ω (Terminals 6). Voltage input / > 1MΩ (Terminal 7).
Loop power output:	19V / 24mA (Used to power input devices. Terminal 5)
Overload continuous:	
Voltage input:	900V MAX.
Current input:	100mA MAX.
Noise immunity:	130dB CMRR.
Input/output isolation:	>2.5kVrms.
Electromagnetic compatibility:	Complies with AS/NZS 4251.1 (EN 50081.1) 



Ordering Details

SL332-X X

Supply: _____
 1 = 80-300Vdc / 80-280Vac 50/60Hz
 2 = 10V - 60Vdc / 16 - 42Vac 50/60Hz

Option: _____
 0 = None

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The following programming features are available;

- **Select Pre-calibrated Range**
The two 16 position top mounted switches are used to set one of the 165 factory calibrated input to output combinations, please follow the procedure on the next page.
- **Calibrate a Special Input / Output Range.**
Special test equipment is required to make a special input output calibration combination. After the calibration is completed the special range is in operation when switches **IN** and **OP** are both in the F position. The standard pre-calibrated ranges still retain their factory settings if required. Please follow procedure **Input / Output Button Calibration** on the next page.
- **Change Input / Output Response**
When the **Slow Response LED** is off the input / output response time is 25ms.
When on the response is 400ms.
Please follow procedure **Change Response Time** on the next pages as required.

Select Pre-Calibrated Range

1. Set switch **IP** to desired input.
2. Set switch **OP** to desired output
3. Connect to the correct positive input terminal (IP+) as shown in the table.
4. Input and output are now calibrated.

Change Response Time

This procedure will change the response time from Fast to Slow or from Slow to fast.

LED ON = Response time 500ms
LED OFF = Response time 30ms

1. Set switch **IP** to position 0.
2. Set switch **OP** to position 0
3. Hold down, do not release the programming Button.
4. The slow response LED will flash 16 to 20 before stopping in the new response time state.
5. Release the programming Button.
6. Set switches **IP** and **OP** to the required positions.

If caught half way through a button programming sequence reset the power and start again.

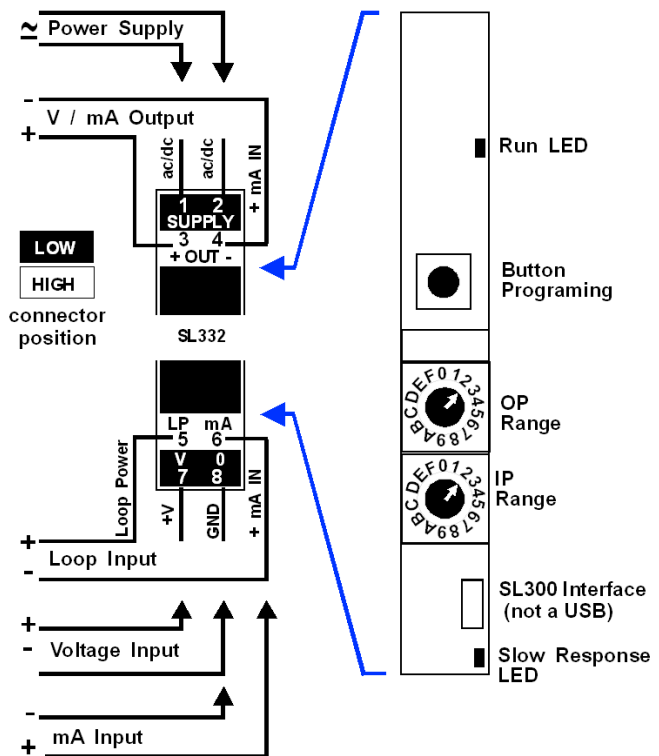
Input / Output Button Calibration

1. Set switches **IP** and **OP** to position 0.
2. Hold down programming button until the slow response LED1 starts to flash and then release.
3. Set switches **IP** and **OP** according to input and output signal requirements.
e.g. Input = 7 to 9mA and Output = 0.3 to 0.9V output, set **IP** to 2 and **OP** to 5.
4. Press the programming button. The slow response LED should flash once to indicate that input and output ranges are remembered.
5. Apply input zero (7mA in this example) and measure output with an external meter.
6. Adjust **OP** switch for zero scale output (0.3V in this example). Use **IP** to switch to set the sensitivity of the **OP** switch, F=course and 0=fine.
7. Press the programming button. The slow response LED should flash twice to indicate that input and output zero scale is remembered.
8. Apply input full scale signal (9mA in this example). Adjust **OP** switch for full scale output (0.9V in this example). Use **IP** to switch to set the sensitivity of the **OP** switch, F=course and 0=fine.
9. Press the programming button. The slow response LED should flash three times to indicate that input and output full scale is remembered.
10. Set switches IP and OP SW2 to position F and check input output calibration.

Switch **OP** and **IP** Selections

IP	Input	OP	Output
0	Button Cal	0	Button Cal
1	0-1mA	1	0-1mA
2	0-10mA	2	0-10mA
3	0-20mA	3	0-20mA
4	4-20mA	4	4-20mA
5	0-50mA	5	0-1V
6	0-1V	6	0-2V
7	0-2V	7	0-5V
8	0-5V	8	1-5V
9	1-5V	9	0-10V
A	0-10V	A	2-10V
B	2-10V	B	0-20V
C	0-20V	C	
D	0-50V	D	
E	0-100V	E	
F	0-200V User range	F	User range

Connection and under door controls



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