

## acV / Bipolar Isolator SL339-2A

The SL339-2A has been replaced by the SL345.  
The SL345 supports bipolar voltage ranges 15mV to 399V and bipolar up current ranges from 1 to 5A, the SL339 does not.

The SL339-XA is a variant of the SL339-X0 and operates with bipolar and ac voltage input signals. The programming socket, under the front door flap is connected via an SL303 USB isolator to the SL300 Windows software. The user can select from the 11 output ranges with input shape control and output signal limits. One of the 12 input ranges is automatically set base on the entered input range.

The **bipolar ranges** allow input measurements below zero which allows the process output to respond to an extended range of signals. The response time may be set using the 25mS/400mS Fast/Slow switch.

The **ac ranges** take multiple readings while detecting the zero crossing of the signal. After a complete cycle the ac value is calculated. This results in accurate amplitude measurement without ripple on signals as slow as 0.1Hz. As a new measurement is available after each input cycle the system response is quicker as the frequency increases. The "Sample Time" setting sets the fastest output update time, multiple readings are averaged. Slow measurements will at selected sample time or cycle period if longer.



Key features of the SL339;

- Small 12.4mm case size.
- Wide range power supply.
- 12 Input and 11 output ranges.
- Fast input to output response.
- Input linearisation.
- User engineering units.
- Reverse and direct acting.
- Output signal limiting.

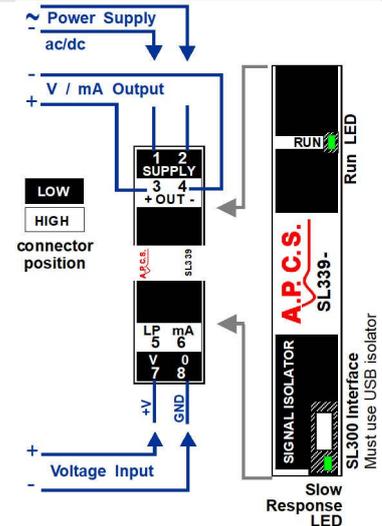
### Ordering Detail

Order Code	Supply
SL339-2A	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 / Poly-carbonate blend
Connection:	Plugable 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.
Bipolar Input ranges:	1V, 2V, 5V, 10V, 20V, 50V, 100V, 200V.
ac input ranges:	0.7V, 1.4V, 3.5V, 7V, 14V, 35V, 70V, 141V.
ac frequency range:	0.1Hz to 400Hz (0.2%), no not use > 1kHz.
Input impedance:	> 1MΩ (terminal 7).
Loop power supply:	19V / 24mA, generally not used on option A.
Continuous overload	
Voltage input:	900V MAX.
Current input:	100mA MAX.
Noise immunity:	130dB CMRR.
Input/output isolation:	>2.5kVrms.
Protection class:	IP40.
Calibration accuracy:	<0.1% dc ranges, 0.5% ac ranges.
Linearity:	<0.1% dc ranges, 0.5% ac ranges..

### Connection and Controls



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