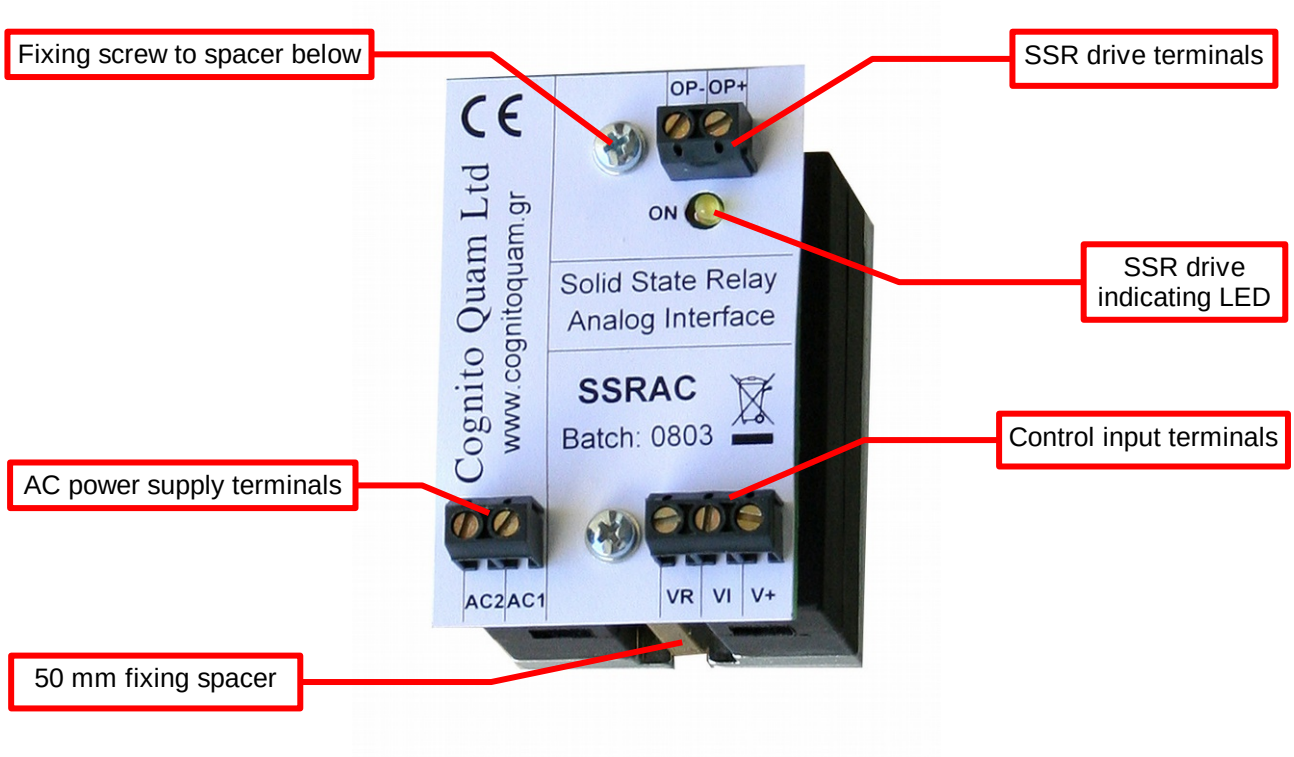
SSRAC Solid State Relay (SSR) Analog Controller

Our fully protected solid state relay analog controller interface accepts a 0 - 10 VDC, PWM or potentiometer signal to drive a solid state relay (SSR) in AC phase control applications such as:

- PLC controlled light dimming,
- Potentiometer controlled heater, and
- Small motor soft starting.

The controller is powered and synchronized to the line by the low voltage AC input and connects directly without any other components to the SSR and control input source.

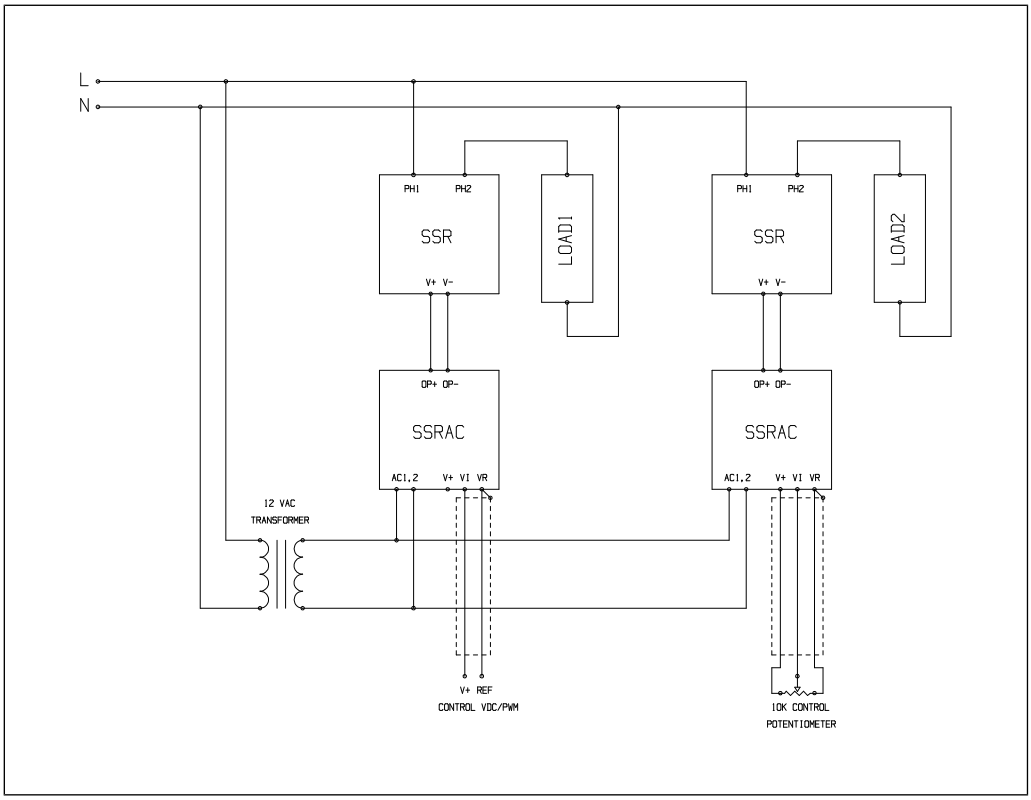
It is mounted above the SSR with accompanying 50 mm spacers and screws. (The spacers are also used to fix the SSR at the mounting face).



Mounted SSRAC board on spacers above SSR.

The SSRAC is designed for standard single phase line systems. The characterizing features are as follows:

SSRAC Feature Summary	
Power supply	10 - 18 VAC power supply and synchronization input is protected against line noise and disturbances. Maximum current consumption is 100 mA.
Analog input	0 - 10 VDC or PWM analog/potentiometer input is protected against reverse polarity connection, shorts and out-of-range potentials.
SSR drive output	Current limited 15 mA SSR drive output range (14-25 VDC, depending on supply voltage) can drive series connected SSRs in applications where a number of SSRs are controlled from one source.
Output linearization	On board integrator linearizes controller output resulting in smooth operation.
Response time	1 s from change at controlling analog input.
Indicating LED	On board LED shows SSR drive status.
Dimensions	44,5 x 68,6 mm (W x H).



Typical SSRAC connection diagrams. The unit on the left is controlled by an analog signal source while the one on the right is controlled by a 10K potentiometer. Both are powered and synchronized to the line via the small 12 VAC transformer. The V+ input connection is not used in the case of an analog 0-10 VDC signal.

Ordering information	
Model	**Description**
SSRAC	Solid state relay analog controller

Supplied by