

DC Solid State Relay Board Technical Information

DC Solid State Relay Board: This is a opto-Transistor with optical isolation between input signal and output signal. This is to be used for switching 5V-100VDC, 50/60Hz supply by 5V-230 VDC input signal.

Features

- DIN rail mountable
- Eight/Four DC SSRs on a single board
- Sink or Source input selection by jumper selection
- LED indication for input signal
- Semiconductor Fuse protection for short circuit and overcurrent.
- Output points in two groups. Each group consists four o/p points.

Product Picture:



Technical specifications:

Input signal voltage: 20 VDC-28VDC, Typical voltage is 24VDC

Max. input current: 20 mA @24VDC

Max. output voltage: 100 VDC

Min. output voltage: 5 VDC

Max. load per output point: 5 Amp

Peak non repetitive surge current: 8 Amp

Input to output electrical isolation: 3.55 KV

Max. Voltage drop in output voltage: 2.5 V @ 2 Amp load

Switching ON delay: 7 microseconds

Switching OFF delay: 10 microseconds

Load type: Resistive and Inductive

Applications:

- a) For switching contactors from PLC outputs.
- b) For switching DC loads like solenoid valves, DC actuators, Lamps, DC electromagnets in industrial use directly from controller outputs.
- c) In all applications where we need very fast switching and require isolation between driver and driven circuits. The load can be inductive or resistive.

Solid State Relay Board Vs Relay Board Comparison:

Sr.No	Solid State Relay Board	Relay Board
1	Switching time 30micro Sec	Switch ON time 18mS and Switch OFF time 18 ms
2	No limitation on number of operations at 1.5 Amp load	300,000 operations is limit at 2A/230 V load
3	Max. load 3A per point	Max. load 2A per point
4	To be used for DC switching	Can be used for AC/DC switching

Available in 8 points and 4 points variants.

Solid State Relay boards with input signal other than 24VDC can be supplied on demand.

Caution :DO NOT USE SSR BOARD FOR SWITCHING AC SUPPLY !

Standards/Approvals:

- CE certified
- PCB:IEC 61373
- Optoisolator/Transistor:UL/VDE
- Connectors:CE
- Profile and end plates:UL

NOTE:-Due to continuous product development the product supplied to you may look different than the product image in the pdf file.

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