



## | SOLID STATE RELAYS

Sensata is the world's leading solid state relay manufacturer. We offer the widest range of off-the-shelf solid state relays, contactors and related products, as well as custom-designed solid state switching solutions.

### Mounting Types

#### PANEL MOUNT

Designed to be mounted on flat metal surfaces (control cabinet walls, metal panels, etc.), or to the typical aluminum extruded type heatsinks via screws through the SSRs baseplate. Since the mounting / heatsinking surface choice is up to the end user, panel mount SSRs have the largest range of load current capability, from 0.1 Amp up through 160 Amp.



#### DIN RAIL MOUNT

DIN Rail SSRs are designed to be easy to attach to industry standard DIN Rail channel that are very common in industrial control panels and cabinets. DIN Rail SSRs provide the control panel designers great flexibility in mixing and matching a variety of SSRs and other associated controls as needed. Typically, DIN Rail SSRs are considered ready to use since most include heatsinking as a built-in feature. However, the convenience of the built-in heatsinking does have a trade-off in typically limiting the range of load current capacity since it can't be increased by the end user. The typical load current capability of DIN Rail mount SSRs is from 0.1 Amp up through 65 Amp.



#### PCB MOUNT

As the name says, PCB Mount SSRs are designed to be mounted on Printed Circuit Boards, and usually have pins for the terminals similar to leaded components. Mounting can be achieved via soldering the SSR pins on the PCB's or in some cases by plugging the PCB mount SSR pins into spring sockets soldered into the PCB. Since PCB mount type SSRs are relatively small in size most are built ready to go and only a few version allow the use of an additional external heatsink. PCB SSRs current ranges run from 0.1 Amp up through 40 Amp.



#### PLUG-IN

Like PCB SSRs the key is in the name. The Plug-in type SSRs are generally used with industry standard type sockets that can in some case accept either a Solid State relay or an Electro-Mechanical relay. As like the PCB & DIN Rail SSRs, Plug-In SSRs are ready to go but additional heatsinking to increase the load current capability is typically not possible. Plug-in SSRs load current ranges tend to max out at 5 Amp.



## Key Products

### NOVA22 Series



NOVA22 are innovative and powerful solid state relays in a 22.5mm wide package. NOVA22s are available in AC and DC output models with ratings up to 35 Amps in a DIN Rail mount package or 95 Amps in a Panel mount package. The unique range of connections, screw or spring cage input terminals and use of standard or elevator screw, make the NOVA22 family the most versatile relays in the market.

- Comes in DIN Rail and Panel Mount Packages
- Only DIN Rail 22.5mm package that is rated up to 35 Amps
- Designed with the innovative elevator output screw which allows the use of ring & lug terminals on an IP20 package

### EL Series



The EL Series AC and DC output solid state relays offer the highest current rating up to 30 Amps in a mini-puck housing and a versatile 90° bent terminals design option for optimal space use. An innovative housing and quick connect terminals make it an ideal option for space demanding applications, especially but not limited to household appliances, professional food equipment and medical machines.

- Current ratings up to 30 Amps
- Pre-installed thermal pad
- Optional 90 degree bent terminals

### Series 1 AC Output



Crydom's signature family of solid state relays. Ratings from 10 A to 40 A @ 24-140 VAC, 12 A to 90 A @ 80-530 VAC and 10 A to 125 A @ 24-280 VAC - SCR output for heavy industrial loads - AC or DC control - zero voltage (resistive loads) or instantaneous turn-on (inductive loads) output.

- SCR output for heavy industrial loads
- UL/CSA/VDE Approved, CE Compliant to EN60950-1
- Epoxy-free design

### NOVA22 PMP Series



PMP Series are fully configurable Panel Mount proportional control relays with microcontroller based technology designed to provide control of the power delivered to single-phase loads of up to 90 Amps at 90 to 600 VAC. PMP Series SSRs vary the output power in proportion to an analog control input, which can be one of 3 signal types: 0-5 VDC, 0-10 VDC or 4-20 mA. The output can be controlled by 2 different methods, selectable on the unit: Phase Angle Control, and Burst Fire Control (with Distributive Zero Cross). PMP Series proportional controllers are ideal for a wide range of applications that require control of the load power, such as for example lamp dimming and resistive heating control.

- Offers the choice of two control modes and three input types in one SSR
- Selectable Operation Mode: Phase Angle or Burst Fire control
- Available in 3 operating voltage ranges: 90-280, 345-530 and 420-660 VAC

### CX & CMX PCB SSRs



CX & CMX PCB Mount Solid State Relays provide engineers smaller and more power-dense solutions for discrete or traditional panel-mount applications. This makes them prime targets for engineers who are trying to reduce the size of their overall system. Crydom PCB mount single-in-line packaged (SIP) solid state relays are an ideal alternative to discrete or traditional panel mount solutions.

- SCR output for heavy industrial loads (CX)
- AC or DC control (CX)
- MOSFET output (CMX)

### Series 1 DC Output



With MOSFET output, this 1-DC Series Panel Mount DC output Solid State Relay offers reliable fast switching of DC loads through low On-State resistance. Power ratings for this DC output SSR range up to 100 Amps at 100 VDC and 10 Amps at 500 VDC.

- High PWM switching capability (up to 5 kHz on selected models)
- UL approved, CE compliant to EN60950-1
- Epoxy-free design