



| HIGH VOLTAGE RELAYS

Sensata | GIGAVAC brings you decades of experience in DC and RF applications of high voltage relays. With a variety of voltages from 2- 100kV, we will spend the time to guide you through all of the possible options for your application.

APPLICATIONS

- Defibrillators/AEDs
- Insulation Testing
- Medical Equipment

SINGLE POLE SINGLE THROW



Single Pole Single Throw relays provide the most straightforward approach to isolation. A single stationary contact and a moveable contact furnish a simple on-off configuration. Forms include normally open, NO, and normally closed, NC. Normally open relays provide voltage isolation until coil power is applied. With coil power applied there is continuity through the relay contacts. Normally closed relays provide continuity through closed contacts until coil power is applied where the relay contacts open providing isolation.

- Rated Voltages (kV Peak) DC or 60Hz: 1.5kV – 70kV
- Max Carry (Amps) DC or 60Hz – 3 - 100
- Weight Nom – 5-342g

SINGLE POLE DOUBLE THROW



Single Pole Double Throw relays offer a normally open and a normally closed contact set in one relay. The moveable contact transfers continuity from one stationary contact to the other when the coil is energized or de-energized. Voltage isolation is then between opposing stationary contact and the moveable contact. As with our other High Voltage Relays, Sensata | GIGAVAC offers several design styles of vacuum and gas filled High Voltage Relays. Vacuum or gas as a dielectric each offer unique advantages depending on the application.

- Rated Voltages (kV Peak) DC or 60Hz: 3.5kV – 70kV
- Max Carry (Amps) DC or 60Hz – 5 - 150
- Weight Nom – 21-992g

DOUBLE POLE DOUBLE THROW



Double Pole Double Throw relays supply two single double throw relays, SPDT, in one relay package. This combination provides tremendous design flexibility. Dual circuit functions can be controlled with a single coil signal. Since the contacts are mechanically linked in many applications one of the contact sets are used as auxiliary contacts to provide circuit feedback indicating relay contact position.

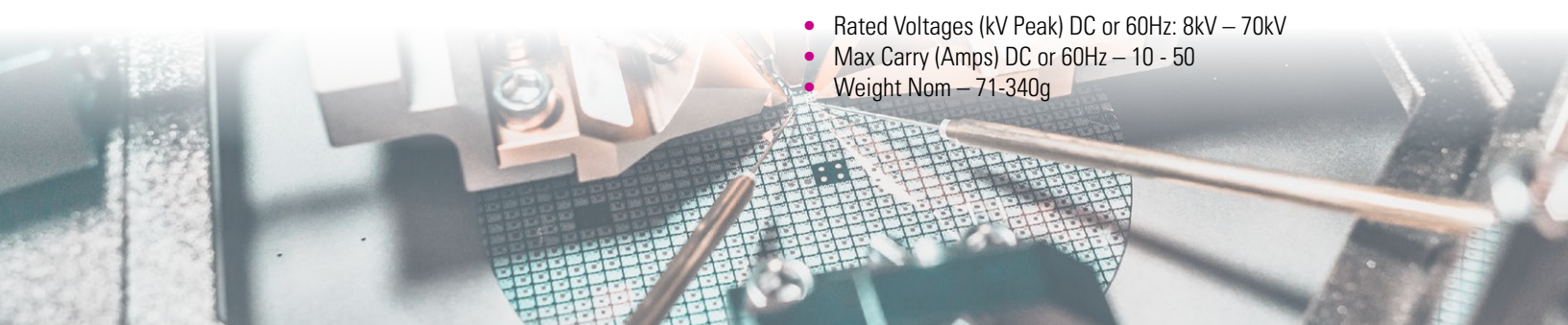
- Rated Voltages (kV Peak) DC or 60Hz: 8kV – 20kV
- Max Carry (Amps) DC or 60Hz – 10 - 150
- Weight Nom – 71-1600g

LATCHING - BI-STABLE



Latching relays provide a unique feature that can be used in any basic relay form, SPST, SPDT, or DPDT. Most relays and contactors are considered "fail safe." Fail safe relays require coil power applied continuously to make sure the relay is switched. Once coil power is removed the moveable contact in a fail safe relay returns to its default position. Latching relays require a momentary coil pulse to change the position of the moveable contact.. Continuous coil power is not required to keep the relay in a particular switched state. When the application circuit needs to switch a latching relay it sends a pulse to the coil to change the moveable contact position.

- Rated Voltages (kV Peak) DC or 60Hz: 8kV – 70kV
- Max Carry (Amps) DC or 60Hz – 10 - 50
- Weight Nom – 71-340g



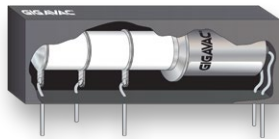
GH SERIES



The GH Series of Relays includes Single Pole Double Throw relays, with a short, compact design for tight-fit applications. It can be mounted in any axis, and features low stable contact resistance for high carry current and low voltage drop.

- Rated Voltages (kV Peak) DC or 60Hz: 3.5kV
- Max Carry (Amps) DC or 60Hz – 8-25A
- Weight Nom – 28g

G81 SERIES



The Sensata | Gigavac G81 series is a Single Pole Single Throw Relay – available either normally open or normally closed.

The relay features tungsten contacts to improve hot load switching. It can be mounted in any position, any axis, and comes in PCB and panel mount versions.

- Rated Voltages (kV Peak) DC or 60Hz: 10kV
- Max Carry (Amps) DC or 60Hz – 5 or 10A
- Weight Nom – 57g

G61, G62, G64



These potted relays deliver a compact design while still providing excellent voltage isolation up to 70kV (voltages vary by model). Rugged high voltage wire leads also allow for flexible positioning of the relay.

- Rated Voltages (kV Peak) DC or 60Hz: 25-70kV
- Max Carry (Amps) DC or 60Hz – 10-18A
- Weight Nom – 336g



ABOUT US

Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in twelve countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicles and marine applications. For more information, please visit the Sensata website.

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