

# KISSLING POWER RELAYS

Controlling high power circuits through low power signals

## ROBUSTNESS IS IN OUR DNA

### PRODUCT OVERVIEW

Designed specifically for industrial and commercial transportation applications, our KISSLING power relays are environmentally sealed to withstand extreme exposure to the elements – without requiring an inert gas filling – to seamlessly control high power circuits. With a technology that meets or exceeds all IP67 and IP6K9K standards, our KISSLING power relays are equipped for demanding applications – supported with a robust design for use where increased humidity, pressure, shock, vibration and dirt are a brutal reality.



### MARKETS



Truck



Bus



Agriculture



Construction

### APPLICATIONS

- Main power control
- System level / accessory power control
- Power distribution



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[te.com/KISSLING](https://te.com/KISSLING)

### KEY BENEFITS

- High resistance to the elements and extreme levels of shock and vibration.
- Series 29 relays have monostable coils for traditional function. Series 30 and 31 relays have bi-stable (latching) coils for powerless holding.
- Enhance functionality with optional onboard electronics available with Series 31 relays.
- Reduce need for part replacement with a product that is built to last.

## POWER RELAY SERIES COMPARISON

| Series | Sub Series      | Coil Function       | Continuous Amp Rating | # of poles | Minimum Wire Size (mm <sup>2</sup> ) | Terminal Size |      | Available Options      |                            |              |                 |
|--------|-----------------|---------------------|-----------------------|------------|--------------------------------------|---------------|------|------------------------|----------------------------|--------------|-----------------|
|        |                 |                     |                       |            |                                      | Main          | Coil | Circuit Configuration* | Coil Voltage (VDC)         | Aux Contacts | Blowout Magnets |
| 29     | --              | Monostable          | 75                    | 1          | 10                                   | M5            | M3.5 | N/O, N/C or C/O        | 12, 24, 48, 80             | Yes          | Yes             |
|        |                 |                     | 120                   | 1          | 25                                   | M8            | M3.5 | N/O or C/O             | 12, 24, 36, 48             | Yes          | Yes             |
|        |                 |                     | 200                   | 1          | 70                                   | M8            | M4   | N/O, N/C or C/O        | 12, 24, 36, 48, 60, 72, 80 | Yes          | Yes             |
|        |                 |                     | 300                   | 1          | 95                                   | M10           | M4   | N/O, N/C or C/O        | 12, 24, 36, 48, 60, 72, 80 | Yes          | Yes             |
|        |                 |                     |                       | 2          | 95                                   | M8            | M4   | N/O or C/O             | 12, 24                     | Yes          | No              |
|        |                 |                     | 500                   | 1          | 240                                  | M12           | M4   | N/O                    | 12, 24, 48, 60, 80         | Yes          | Yes             |
| 30     | --              | Bistable (Latching) | 120                   | 1          | 25                                   | M8            | M3.5 | N/O                    | 12, 24                     | Yes          | Yes             |
|        |                 |                     | 200                   | 1          | 70                                   | M8            | M4   | N/O or C/O             | 12, 24                     | Yes          | Yes             |
|        |                 |                     | 300                   | 1          | 95                                   | M10           | M4   | N/O or C/O             | 12, 24                     | Yes          | Yes             |
|        |                 |                     |                       | 2          | 95                                   | M8            | M4   |                        |                            | Yes          | No              |
|        |                 |                     | 500                   | 1          | 240                                  | M12           | M4   | N/O                    | 12, 24                     | Yes          | Yes             |
| 31**   | ENERGY          | Bistable (Latching) | 200                   | 1          | 70                                   | M8            | M4   | N/O                    | 12, 24                     | No           | Yes             |
|        | 300             |                     | 1                     | 95         | M10                                  |               |      |                        |                            |              |                 |
|        | INIT/<br>SAFETY |                     | 200                   | 1          | 70                                   | M8            | M4   | N/O                    | 12, 24                     | Yes          | Yes             |
|        |                 |                     | 300                   | 1          | 95                                   | M10           |      |                        |                            |              |                 |

\* N/O = Normally Open. N/C = Normally Closed. C/O = Changeover, 1x N/O + 1x N/C on opposite ends of the relay housing.

### \*\* Series 31 sub series definitions:

**ENERGY** = Integrated microcontroller with capacitor allows for benefits of bistable relay with the coil wiring of a monostable relay. Also includes short-circuit, reverse-polarity and undervoltage protection for the coils.

**INIT** = Integrated microcontroller allows relay control with "high/low" signal input from ECU or other system via INIT input. Also includes short-circuit, reverse-polarity and undervoltage protection for the coils.

**SAFETY** = Integrated microcontroller includes short-circuit, reverse-polarity and undervoltage protection for the coils, protecting against the factors that can damage a traditional bistable relay.

### Notes

All 29/30/31 series power relays are capable of load voltages up to 250VDC, with blowout magnets required over 40VDC.

Switching under load is possible in all 29/30/31 series models at or below rated voltage / amperage levels. See datasheets for cycle life ratings.

All 29/30/31 series power relays available with either side-mount or bottom-mount bracket options.

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