

Overvoltage/Undervoltage Monitoring Relay for AC and DC Input

- Detect overvoltages or undervoltages (switch selectable) from 4 mV to 300 V.
- Detect undercurrent, reverse current, or overcurrent in DC circuits using shunt (SDV-FL).
- Detect three-phase AC current for under and/or overcurrent using current converter.
- Available in 7 supply voltage configurations.
- Single-function model with ON-delay, OFF-delay, or start-up lock settings (SDV-FH□T).
- Select either AC or DC voltage input.
- Polarity can be specified (SDV-FL) to enable easy reverse current detection.
- Selectable reset value range from 2% to 30% of operating value (SDV-F).
- LED operation indicator.
- UL, CSA (SDV-F), and RCM approval.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

■ Model Number Legend

SDV-□□□□□□
1 2 3 4 5 6

1. Voltage Sensor

2. Operation

- F: Single-function (overvoltage or undervoltage detection)
- D: Dual-function (overvoltage and undervoltage detection)

3. Operating Voltage Range

- L: 4 to 240 mV (DC input only) (For SDV-F only)
- M: 0.2 to 12 V (AC or DC input)
- H: 10 to 300 V (AC or DC input)

4, 5. Control Power Supply Voltage

- 2: 24 VDC
- 3: 48 VDC
- 4: 100/110 VDC
- 5: 125 VDC
- 51: 200/220 VDC (Single-function models)
- 6: 100/110 VAC
- 61: 120 VAC (Single-function models)
- 7: 200/220 VAC
- 71: 240 VAC (Single-function models)

6. Timing Function (SDV-FH Only (See Note))

- None: Not provided
- T: Provided

Note: SDV-FL and SDV-FM models can also be equipped with the timing function as a special specification. Ask your OMRON representative for details.

Note: Not possible for the SDV equipped with the timing function (SDV-FH□T).