



**DN-SSR4**



**DN-SSR4DC**

## DN-SSR4/DN-SSR4DC

### 4-channel AC-type Form-A Solid State Relay module

#### Functional Description

The DN-SSR4 relay module can control high voltage load up to 4 A @ 240 VAC, while the DN-SSR4-DC can control DC voltage load up to 4 A @ 50 VDC. Four indicator LEDs, one for each relay, light when their associated relay is activated. Each output of DN-SSR4 equipped with a varistor that shunts the surge voltage of the inductive load or electromagnetic brake to protect the relay contact point. All relay control and relay outputs are accessible through the wiring terminals.

#### Features

- 4 optically isolated digital output channels
- 4 Form A solid-state relays
- Switch up to 4A at 240 VAC (DN-SSR)
- Switch up to 4A at 50 VDC (DN-SSR-DC)
- 2,500 V optical isolation
- LEDs indicate relay status
- Screw terminal for easy field wiring
- Build-in diodes to protect from wrong connection of external power supply.
- Connects directly to ICP CON I-7000 modules, or ISO-730 isolated output board, ISO-C64 output board, ISO-P32C32...etc.
- DIN-Rail mounting

#### Specifications

- AC/DC Solid State Relay

##### **(DN-SSR4 only)**

- Load Voltage: 50 ~ 250 VAC
- Repetitive peak OFF voltage: 600 V
- Surge current: 50 A
- Maxi. Load Current: 4 A
- Maxi. "OFF-state" leakage current: 50 mA
- Operate time, max.: 1/2 cycle of voltage sine wave 1 ms (Zero-cross)

##### **(DN-SSR4-DC only)**

- Load Voltage: 3 ~ 50 VDC
- Surge current: 10 A (0.1sec)
- Maxi. Load Current: 4 A
- Maxi. "OFF-state" leakage current: below 1.0 $\mu$ A (Vo=50V)
- Operate time, max.: 1/2 cycle of voltage sine wave 1 ms (Zero-cross)

##### **(DN-SSR4 and DN-SSR4-DC)**

- Input Voltage: +24 VDC  
Logic ON: 0 V  
Logic OFF: 24 VDC
- Power consumption: 100 mA @ 24V max.
- Dimensions: 101mm x 77 mm x 66mm (W x L x H)
- Operating Temperature: 0 ~ 60 °C
- Storage Temperature: -20 ~ 70 °C
- Humidity: 5% ~ 90% RH, non-condensing

#### Applications

- On/off control
- Energy management
- Test Automation
- Process Control

#### Ordering Information

DN-SSR4	4-channel AC-type Form-A Solid State Relay module
DN-SSR4/N	4-channel AC-type Form-A Solid State Relay module without DIN-Rail Mount
DN-SSR4-DC	4-channel DC-type Form-A Solid State Relay module
DN-SSR4-DC/N	4-channel DC-type Form-A Solid State Relay module without DIN-Rail Mount

#### Optional Accessories

ACE-540A	24V/1.7A output power supply
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