

NXI-4200-8 Universal Relay Control Module



Product Introduction

NXI-4200 is an 8-channel relay control switch module with a highly reliable electromagnetic relay, and its high power signals capacity up to 150W. The control circuit of this model is electrically isolated from the switching circuit; Therefore, it can effectively protect the test system and improve the test safety. NXI-4200-8 has a strong loading capacity and good isolation performance, and it can be widely used in various scene that AC/DC voltage and current need to be switched.

Application Fields



Circuit Switching Control



Signal ON/OFF Simulation



Integrated Test Systems



Integrated Test System

Main Features

- ▶ 8 channels, support SPST (Single Path Single Throw)
- ▶ Switching Load: 8A/250VAC, 5A/30VDC
- ▶ Action Time: 10ms (typical)
- ▶ Dielectric Strength: coil-contact 4000V AC
- ▶ Contact Resistance: 100mΩ
- ▶ Mechanical life up to 10⁷ times
- ▶ Single module with single slot, applicable to NXI-F1000 chassis or independent use
- ▶ Support 12V DC power supply input, LAN communication for individual control
- ▶ Support Modbus-RTU, SCPI protocols

Technical Data Sheet

| Model | NXI-4200-8 | |
|-------------------------|--|--|
| Channels | 8 | |
| Topological Structure | 8-SPST Universal Switch | |
| Hot swap Load | Max. Current: 8A | |
| | Max. Voltage: 30VDC/250VAC | |
| Cool Switch Load | Max. Current: 8A | |
| | Max. Voltage: 30VDC/250VAC | |
| | Max. Power: 150W/2000VA | |
| | Min. Switch Capacity: 10mA, 5VDC | |
| Min. RDS(ON) | 100mΩ Max@5V/1A | |
| Open Circuit Resistance | 10MΩ | |
| Bandwidths | 20MHz | |
| Action Time | 10ms typical | |
| Switching Life | Mechanical | Min. operations 1x 10 ⁷ times |
| | Electronic | Electronic Min. operations 5×10 ⁴ times |
| Dielectric Strength | Coil-Contact | 4000V AC, 50/60Hz 1 minute |
| | Contact-Contact | 1000V AC, 50/60Hz 1 minute |
| | Control-Switch | 1000V DC, 50/60Hz 1 minute |
| Others | | |
| Test Terminal | ATX Connector, 20Pin | |
| Operating Power | 12VDC±10%, <0.5A | |
| Communication Interface | LAN | |
| Temperature | Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C | |
| Operating Environment | Altitude: <2000m; Relative humidity: 5%~90%RH (no condensation); Operating air pressure: 80~110kPa | |
| Dimensions | 130.5mm(H)*20mm(W)*230.5mm(D)(with puller) | |

Note 1: For more and latest information, please contact NGI.

Note 2: For other specifications, please contact NGI.