



FR-16R

FR-32R

FR-16/32R

16/32-channel Relay Output Module

Functional description

The FR-16/32R has 16/32-channel relay output. Not like traditional relay output board, the FR series I/O module has an FRnet interface. The FR I/O module can be used as a distributed remote I/O module or a MagicWire module. The user should select the correct setting when using these modules. Refer to jumper setting. The user can daisy several FRnet modules together. Via FRnet, the FRnet modules can work with PC, PAC, μ PAC and PLC easily. Further information about the networking of FR- 16/32R; refer to related literatures of I-7188EF, I-8172, FRB-100/200.

Features

- Built-in FRnet interface
- Real I/O synchronization
- Innovative token-stream technology
- Support Broadcasting
- Real Deterministic Control
- Fixed Scan time: 256 points @ 2.88 ms
- Each bank consists of 8 input channels and has its own ground reference
- ASIC design without CPU
- Memory-map I/O
- No protocol and no software overhead
- Easy Programming and OS-independent
- Din-rail mounting
- Two-Wire Cabling
- Jumper setting
- Interface circuit

Applications

- Factory Automation
- Building automation
- Energy management
- Agriculture automation

Specifications

- Communication speed: 250K bps
- Communication distance: 400m max
- Number of channels: 16/32 (FR-16/32R)
- Form A relay
 - Type: SPST
 - Nominal load: 3A/125Vdc, 3A/270Vac
 - Max switching power:1250VA, 150W
 - Max switching voltage: 125Vdc, 270Vac
 - Max switching current: 5A
 - Life expectancy: mechanical; electrical
 - Resistive load:
 - 100,000 ops. min; 250Vac/30Vdc@3A
 - Mechanically: 20,000,000 ops. at no load.
 - Release time: 5ms
 - Control logic: TTL Low, Relay on.
- Power Requirement: 10~30V
- Wire cable: CPEV 0.9S (2P Twisted-pair wire)
- Power consumption:
 - 24V@75mA(max) (FR-16R)
 - 24V@240mA(max) (FR-32R)
- Operating temperature: -25°C ~ +75°C

- Operating humidity: 10% ~ 90% RH, non-condensing
- Storage temperature: -30°C ~ +85°C
- Storage humidity: 5% ~ 95% RH, non-condensing
- Dimensions:
 - 173 mm x 117 mm (FR-16R)
 - 173 mm x 117 mm (FR-32R)

Ordering Information

FR-16R	16-channel Relay Output Module
FR-32R	32-channel Relay Output Module