



FR-2057iT

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16-channel Sink Type Isolated Output Module With Isolated Communication line

Introduction

The FR-2053iT has 16-channel isolated Sink/Source input, while the FR-2057iT has 16-channel isolated sink output. The FR-2000 I/O module has an FRnet interface. The users can daisy chain several FR-2000 modules together. Via FRnet, the FR-2000 modules can extend the remote I/O control of PC, PAC and PLC easily. Further information about the networking of FR-2053iT/2057iT; refer to literature related to I-7188EF, I-8172W, FRB-100/200/200U.

Features

- Built-in Wire-saving FRnet DI/DO control
- High-speed transmission reliability
- Simple synchronization mechanism
- No software overhead on protocol processing
- Supporting broadcasting (1:n data transmission)
- Duplicating output easily
- Fixed I/O scan-time and I/O synchronization
- DIN-Rail mountable

Specifications

Digital Output

Output Channel	16
Output Type	Sink, Open-Collector (NPN)
Load Voltage	+5V to 30VDC
Load Current	100mA, Max
Isolation Voltage	3750Vrms
Connection	20-Pin Removable Terminal Block

Interface

Isolation Voltage	3000Vrms
2-wire cabling	Belden 8941 (2P twisted-pair cable), When different cables are used, the transmission distance may change
Transfer distance	Max. 400m for speed 250K Max. 100m for speed 1M(Default)
LED Indicators	Power, Communication Run, Communication Error, Terminal resistor, Digital output
Transfer speed	250Kbps and 1Mbps(Default) DIP Switch Settings
Cyclic scan time	2.88ms for speed 250K 0.72ms for speed 1M(Default)

Power

Input Voltage Range	+10 ~ +30VDC (Non-isolation)
Power consumption	2.4W Max
Connection	5-Pin Removable Terminal Block

EMS Protection

ESD	4KV for power liner, Communication line and each channel
EFT	1KV for power liner
Surge	0.5KV for power liner

Mechanical

Case	Plastic
Flammability	UL 94V-0 materials
Dimensions	32.5mm x 110mm x 102mm (W x H x D)
Installation	DIN-Rail

Environment

Operating Temperature	-25 °C~ +75°C
Storage Temperature	-30 ~ +85°C
Ambient Relative Humidity	10% to 90% non-condensing

Ordering Information

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