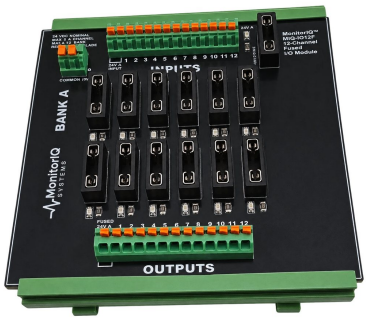
MIQ-IO12F

12-Channel Fused PLC I/O Interface Module

PLC BRAND INDEPENDENT • 24 VDC DISCRETE I/O • DIN-RAIL MOUNTED

The MIQ-IO12F is a compact industrial interface module that provides individually fused protection and visual status indication for twelve 24 VDC PLC discrete I/O field circuits. A separately fused source connection adds protection for the PLC output supply.

Designed for compatible standard 24 VDC PLC discrete I/O systems without dependence on a specific PLC brand.



KEY SPECIFICATIONS

Manufacturer	MonitorIQ Systems LLC
Model / MPN	MIQ-IO12F
Product type	12-channel fused PLC I/O interface module
Nominal operating voltage	24 VDC
Signal type	Digital / discrete
PLC compatibility	Brand-independent for compatible 24 VDC PLC discrete I/O systems
Number of channels	12
Installed channel fuse	1 A, 32 VDC ATO/ATC per channel
Installed source fuse	2 A, 32 VDC ATO/ATC
Status indication	Individual channel LEDs plus source/power LED
PCB construction	1.6 mm, 2-layer FR-4
DIN compatibility	EN 60715 TH35, TH15, G32
Approx. overall footprint	108 mm x 124 mm

WHY MONITORIQ

- Individual replaceable fuses localize protection for each 24 VDC field circuit.
- Dedicated channel LEDs provide fast visual status confirmation and simplify troubleshooting.
- Standard full-size ATO/ATC blade fuses are readily serviceable and widely available.
- Source protection, channel protection, indication, field wiring, and DIN-rail mounting are consolidated in one assembly.
- Brand-independent interface architecture supports use across multiple compatible PLC platforms.

TYPICAL APPLICATIONS

PLC digital outputs, relay coils, indicators, solenoids, contactor-interface circuits, machine controls, OEM control panels, industrial automation, test equipment, retrofit control systems.

TECHNICAL & ORDERING INFORMATION

Electrical Configuration

Source protection: The PLC output supply connects through a separately fused 2 A, 32 VDC ATO/ATC source fuse.

Channel protection: Each of the 12 field circuits uses an individual replaceable 1 A, 32 VDC ATO/ATC blade fuse.

Indication: A source/power LED indicates supply presence and each channel has a dedicated status LED.

Connection & Installation

I/O conductor range	16-24 AWG
I/O strip length	8 mm
Common/GND conductor range	18-24 AWG
Common/GND strip length	8 mm
Mounting	DIN rail - EN 60715 TH35, TH15, G32
Installation	Open-type industrial control component; install inside a suitable control enclosure
DIN carrier material	Self-extinguishing flame-retardant PVC, UL94 V-0 material rating

Ordering Information

Order model	MIQ-IO12F
Description	12-channel 24 VDC fused PLC I/O interface module
Supplied mounting	DIN-rail carrier
Supplied protection	Required channel and source fuses
Ordering / availability	See monitoriqsystems.com for current sales channels, availability, and quotation information

Package Contents

- 1 x MIQ-IO12F interface module
- 1 x DIN-rail mounting carrier
- Required channel and source fuses

Installation & Compliance. The complete MonitorIQ assembly is not currently UL Listed or UL Recognized. Individual components may carry independent UL Listing, UL Recognition, UL94 material ratings, or other manufacturer approvals where applicable. Component-level approvals do not constitute certification of the complete assembly. The UL94 V-0 statement applies to the DIN-rail

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