

Mitsubishi FXDOM01

Digital Output Module

Product scope

- Switches eight individually isolated field circuits through solid-state PhotoMOS contacts.
- Supports different AC/DC voltage classes according to the selected FLEX terminal base.
- Turns outputs off under watchdog, low-supply or bus-timeout supervision conditions.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Mitsubishi FXDOM01

Digital Output Module

Product overview

Mitsubishi FXDOM01 is an eight-channel isolated digital output module for FLEX I/O and ControlNet-based drive-control systems. Each PhotoMOS output switches AC or DC loads while remaining individually optically isolated.

FXDOM01 provides eight normally open solid-state outputs with individual isolation and a dedicated yellow state LED for every channel. The module supports 120 V class operation with a TB3 base or 230 V class operation when paired with the specified TBN base.

PhotoMOS switching gives the module a low leakage path and avoids mechanical relay wear in repeated command service. A watchdog forces outputs off when supply or bus supervision detects a condition that prevents reliable control.

The selected terminal base determines the permissible field-voltage class, so the existing TB3, TB3S, TBN or TBNF base must be verified before exchange. Field circuits also require protection sized for the connected load and the 0.5 A channel rating.

Technical specifications

Output channels	8
Output technology	PhotoMOS MOSFET, normally open
Isolation	Individual optical isolation
Channel load current	0.5 A maximum
TB3 operating class	120 V DC/AC
TBN operating class	220 V DC / 230 V AC
Off-state leakage	10 μ A maximum
On resistance	3.2 Ω maximum
Module supply	24 V DC $\pm$ 10%
Module supply current	Less than 40 mA
FLEX bus supply	5 V DC, less than 80 mA
Output state indication	8 yellow LEDs
Module status indication	Normal/abnormal LED
Dielectric strength	1500 V AC for 1 minute
Operating temperature	0 to 55 °C
Storage temperature	-10 to 70 °C
Operating humidity	35 to 95% RH, non-condensing
Shock resistance	15 g
Vibration resistance	2 g from 10 to 500 Hz
Compatible bases	1794-TB3, 1794-TB3S, 1794-TBN, 1794-TBNF

FXDOM01 function and operating principle

Ordered configuration

This execution is an eight-point isolated output module rather than a conventional commoned relay card.

System role

It delivers on/off commands to field devices while insulating each channel from neighbouring circuits.

Selection and installation

Terminal-base type, field voltage and load category must be confirmed together before inserting the replacement module.

Functional path

- Switches eight individually isolated field circuits through solid-state PhotoMOS contacts.
- Supports different AC/DC voltage classes according to the selected FLEX terminal base.
- Turns outputs off under watchdog, low-supply or bus-timeout supervision conditions.

Application scenarios

- Drive auxiliaries can be commanded where independent isolation is required between eight output circuits.
- Test stands use the solid-state channels for frequent switching without mechanical contact wear.
- ControlNet-linked FLEX stations can operate valves, contactors or indication loads within the documented voltage and current limits.

FXDOM01 engineering checks

Interoperability

- The module mounts on the designated FLEX I/O bases used by the Mitsubishi drive-control platform.
- A TB3 or TB3S base is used for the 120 V class, while TBN variants support the higher field-voltage class.
- Existing rack, keying and controller configuration must identify the card as an eight-point digital output module.

Protection

- Watchdog supervision removes field commands after a bus timeout or inadequate module supply.
- Each output is isolated so a channel fault does not directly share its field potential with another channel.
- External branch protection remains necessary because the module is not a substitute for load-circuit overcurrent devices.

Operating Environment

- The rated operating range is 0 to 55 °C at 35 to 95 percent non-condensing humidity.
- The assembly is qualified for 15 g shock and 2 g vibration in its installed configuration.
- Cabinet design must keep the module dry and within the stated storage and operating limits.

Critical technical note

FXDOM01 must be matched to the installed terminal base; using a 230 V field circuit with a TB3 execution is unsafe.

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