

M500FPJ(A)

Firephone Control Module With FlashScan mode



General

The M500FPJ Addressable Firephone Control Module gives Johnson Controls IFC control panels the capability to monitor and control a circuit of up to two firefighter phones. The M500FPJ has the ability to differentiate between normal, off-hook, and trouble conditions. This module is used to connect a remote firefighter telephone to a centralized telephone console. A ringing sound is provided at each off-hook handset until it is connected to the console. The user can then connect that off-hook phone to the main riser for the voice evac system.

Wiring to individual telephone jacks and handsets is supervised, and status is reported to the panel as NORMAL, TROUBLE, or OFF HOOK. This module has two pairs of output termination points available for fault-tolerant wiring (Style Z), and includes a panel-controlled LED indicator.

FlashScan® (U.S. Patent 5,539,389) is a communication protocol that greatly increases the speed of communication between analog intelligent devices. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of other protocols.

Features

- Supports two firefighter telephones in either NFPA Style Y or Style Z (Fault Tolerant) telephone circuits.
- Direct-dial entry of address 01– 159 for FlashScan®.
- Built-in type identification automatically identifies itself to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop.
- Integral LED “blinks” green each time a communication is received from the control panel.
- LED blink may be deselected globally (affects all devices).
- High noise immunity (EMF/RFI).
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.

Construction

- The face plate is made of off-white Noryl®.
- Controls include two rotary switches for direct-dial entry of address (01-159).
- The M500FPJ is configured for either a single Class B (Style Y) or Class A (Style Z) telephone circuit.



Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S1570
- **ULC Listed:** S1570
- **FM Approved**
- **CSFM:** 7165-0554:0149, 7165-0554:0153
- **FDNY:** COA #6036, COA #6054

Operation

The M500FPJ uses one of 159 possible module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including NORMAL, TROUBLE, or OFF HOOK status of its telephone circuits. The LED blinks with each poll received.

Upon code command from the panel, the M500FPJ will disconnect the supervision and connect the telephone riser to its telephone circuit. The telephone riser is always relay isolated from the communication loop so that a trouble condition on the riser will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel.

Specifications

Normal operating voltage: 15 to 32 VDC.

Maximum current draw: 7.5 mA (LED on).

Average operating current: 7.5 mA group poll (FlashScan® mode) with LED flashing.

External supply voltage (*between Terminals T3 and T4*): maximum 28 VDC.

EOL resistance: 3.9K ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Weight: 6.3 oz.

SOFTWARE COMPATIBILITY

- IFC-640 - As of Version 3.1.3
- IFC-3030, IFC2-3030 - As of Version 2.2.9
- LCM - As of Version 2.3.7

Product Line Information

M500FPJ: Intelligent Addressable Firephone Control Module, 3.9K ohm End-of-Line Resistor included.

M500FPJA: Same as M500FPJ with ULC listing.

SMB500: Optional Surface-Mount Electrical Backbox.

CB500: Control Module Barrier — required by UL for separating power-limited and non-power-limited wiring in the same junction box as M500FPJ.

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