

Monitor XL™

Elevator Control Package



OVERVIEW

The Monitor XL Elevator Control Package provides powerful floor-access control supporting both Wiegand and magnetic stripe card technologies with a maximum of 64,000 cardholders.

Each package consists of three components. The Elevator Control Module is the main controller used to control the readers and send relay commands to the various relay modules. The Elevator Relay Module controls up to eight floors at a time and can monitor eight call button inputs. The Elevator Filter Module provides clean data and power from the elevator cab to the control module for improved noise immunity.

The control module can manage two cabs with up to 120 floors (stopping points) per account. A valid card swipe will enable various dry contact relays to control the call buttons in the elevator cab for a short amount of time so the user can select a floor. If call button monitoring is enabled, the other call buttons can be disabled once a floor is selected.

A diagnostic mode allows a service technician to test all floor relays and call button inputs from the elevator control room. Standard Monitor ISM™ fallback modes are available in the event communications are severed to the host panel. Relay boards will fully activate upon communication failure, allowing the elevator cab to change state depending on the customer's requirements.

Each relay board contains eight inputs to audit which call button was used after a valid card was presented. This allows for extra security by disabling all other floor buttons once one button has been selected. It also prevents the tailgating that can occur when floors are active for a specified amount of time, allowing any buttons to be pushed during that time.

STANDARD FEATURES

- Supports Wiegand and magnetic stripe card technologies with a maximum of 64,000 cardholders
- Manage two cabs with up to 120 floors per account
- Elevator Relay Module controls up to eight floors and monitors eight call button inputs
- Elevator Filter Module provides improved noise immunity
- Call button monitoring
- Diagnostic mode
- Monitor XL fallback modes
- Modular Form C relays are designed for easy expansion

Specifications

Elevator Control Module	2 elevator cabs supported 30 Relay Boards Max. (15 per elevator cab) Auxiliary Fire, Bypass and Panic Inputs
Elevator Relay Module	8 Form 'C' relays (Dry Contact) 8 Call Button Inputs Points (NC or NO)
Elevator Filter Module	Opto-Isolation for reader data, power and call button inputs for a single cab 5v 200ma filtered power available for cab reader power
System Architecture	RS485 (SNAPP) communications from Elevator Control Module to Monitor XL™ Main Panel. Each Elevator Control Module contains a unique electronic serial number to ease installation and troubleshooting.
Power Requirements	Elevator Control Cabinet: One 12VDC 2.5A Power Supply included. Requires a 16VAC 37VA Transformer (not supplied). Elevator Relay Cabinet: Two 12VDC 2.5A Power Supplies. Requires a 16VAC 37VA Transformer each (not supplied).
Cabinet Material	Metal, Off-white
Cable Requirements	RS485: 4 Conductor Shielded (recommended) Twisted Pair (18 – 24 awg, depending on length of cable run, 12.5 pf/ft). Power: 2 Conductor 18 awg Inter-Module wiring 18 - 22 awg
Dimensions (WxHxD)	Elevator Control Cabinet: 10.1 x 14.0 x 3.2 in. (256 x 355 x 81 mm) Elevator Relay Cabinet: 17.5 x 21.1 x 3.5 in. (445 x 612 x 89 mm)
Compatibility	The Elevator Control Package is compatible with Director Enterprise only.
Temperature Range	0°C to 50°C (32°F to 122°F), 10 to 90% Humidity
Standards	ULC, UL ICAN, FCC, CE

Ordering Information

120-8151	Elevator Relay Starter Cabinet: 2 cab controller; Large cabinet, 1 Elevator Filter Module, 1 x 8 Relay Module and 12v 2.5A power supply.
120-8152	Elevator Relay Expansion Cabinet: Large cabinet and 12v 2.5A power supply.
120-8153	Elevator Relay Module: 8 Floors Capable, Board only
120-8154	Elevator Filter Module: Board only



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