



FX-3500 with two optional RAX-1048TZDS modules

Description

Mircom's FX-3500 is a series of powerful Intelligent Addressable Fire Alarm Control Units which include Release Control Units (RCUs). These panels are UL 864 Rev 10 and ULC S524, CAN/ULC-S527-11 and ULC-S536 listed for fire control and releasing service.

The FX-3500 is recommended for both new and retrofit special-hazard/critical- infrastructure suppression/special agent applications. Small in enclosure size yet powerful enough to deliver complex programming requirements, the FX-3500 is fully expandable.

The FX-3500 provides up to three addressable Signal Line Circuits (UL's-SLC or ULC's-Data Communication Links- DCLs) and connects up to 954 addressable devices/points. Capable of releasing up to six discrete physical hazard zones, the FX-3500 offers exceptional value for complex installations.

Elegant configuration options by onsite laptop, or when required by the Engineer of Record, by remote PC via modem, the FX-3500 can be operational with minimal set up time.

Programming versatility makes the FX-3500 Series the ideal choice for dependable fire detection, signaling and protection in industrial, commercial and institutional buildings. Typically these environments require agent-based suppression solutions easily managed by the FX-3500 Intelligent Addressable Release Control Unit.

Features

- One onboard SLC/DCL communication circuit that supports up to 318 addressable devices/points;
- Expandable to three SLC/DCL communication circuits that supports up to 954 addressable devices/points;
- Reliable and industry proven dedicated releasing power supply;
- Six dedicated hazard zone LED indicators;
- Convenient USB Programming port;
- Built-in UDACT/DACT for remote monitoring;
- Enhanced tactile response for operator interface;
- 4 x 20 character Liquid Crystal Display (LCD);
- Easy to read numerical keypad;
- 10 Ampere (Amp.) Power Supply to satisfy typical releasing load requirements;
- Four Class A/B Notification Appliance Circuits (NAC) rated at 1.5Amp. each;
- SLC is capable of NFPA 72 Style 4, Style 6, or Style 7 wiring & ULC's DCL-A & DCL-B;
- Resettable auxiliary power supply;
- Four easy to read status queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Building Safety (Formerly Monitor) Input visual indications;
- Supports up to seven remote annunciators;
- Accessible multifunction RS-232 port for:
 - Serial Communication interface
- RS-485 Interface for remote LCD/LED Annunciators and other devices;
- Optional City Tie/Polarity Reversal module for central station monitoring.
- Bypass adders IPS-2424DS and IPS-4848DS can be used on this panel, please refer to Optional Adder Modules Section



Mechanical Features

- The FX-3500 supports both flush and surface mount applications;
- Dimensions: 26" x 14.5" x 4.2"
66 cm x 36 cm x 11 cm
- Modular display placement options;
- Fits up to 2, 18 Ampere Hour batteries.
- Durable CAT-30 lock and key.
- Removable enclosure door.
- Easy access to all modules for serviceability.

Software and Operational Features

Audible alarm response within three seconds of activation in Advanced Protocol mode (when using AP devices only);

- AP is a completely digital protocol;
- AP is an Interrupt base protocol;
- Individual LED Control;
- Releasing capability for up to 6 Zones
- Supports Pre-Action/Agent Release and Deluge Applications;
- Supports up to 3 SLC loops and 954 points
- Supports CLIP and AP System Sensor protocols;
- Built-in strobe synchronization support for Mircom, System Sensor, Gentex and Wheelock protocols;
- Grouped inputs and outputs;
- NACs can be configured as Silenceable or Non-Silenceable for both signals and strobes;
- Group bypass with built-in false alarm prevention technology;
- Zone Counting;
- Built-in Drift Compensation for AP protocol;
- Positive Alarm Sequence;
- Configurable Signal Silence Inhibit, Auto Signal Silence, Two Stage Operation and One-Man Walk Test;
- Relay contacts for Common Alarm, Auxiliary/Alarm (Disconnectable), Common Supervisory and Common Trouble;
- Two event history logs comprised of a 400 event alarm log for alarm related events and a 400 event general log for all other events;

Additional Features

- Compatible with INX-10A Addressable Intelligent NAC Expander Panel.
- Supports Acclimate smoke detection sensors.



Sensors can be configured as:

- Alarm Input
- Priority Alarm
- Verified Alarm
- Latched Supervisory
- Non-Latching Supervisory
- Monitor
- Trouble Input
- Water-Flow Alarm

FX-3500 Features and Benefits

- Cross-zoned or Counting Zone Smoke Detection programming to enable release by either counting active zone detection circuits or active cross-zoned detection circuits (includes options for single, double, triple and 2 different inputs counting zones)
- The FX-3500 Series RCUs are fully expandable to meet the demanding requirements for mission critical facilities, both inside the high value asset areas and also in the office environments.
- Beam Detector and Duct Detector AP types
- Bypass adders IPS-2424DS and IPS-4848DS can be used on this panel, please refer to Optional Adder Modules Section.
- USB port on core board for simple programming and firmware upgrade
- Common configurator for FX-3500 and FX-3318
- Full Windows 10 compatibility
- CO-Photo-Heat Combinations

Enclosures



BB-1001WP(R)A – Outdoor Weather Protected Enclosure

The BB-1001WP(R)A is a complete enclosure that comes with either a RED or WHITE door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation. RAM-1032TZDS-CC is ordered separately to conform with the UL, ULC installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC must be ordered separately to match UL, ULC installation requirements.



BB-1002WP(R)A – Outdoor Weather Protected Enclosure

The BB-1002WP(R)A is a complete enclosure that comes with either a RED or WHITE door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation and one RAX1048TZDS-CC Adder Annunciator, which provides up to 48 points of annunciation. RAM-1032TZDS-CC and RAX1048TZDS-CC are ordered separately to match the UL, ULC installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC and RAX-1048TZDS-CC must be ordered separately to match UL, ULC installation requirements.



BB-1001 / 2 / 3 / 8 / 12 – Remote Annunciator Enclosures

The BB-1000 Series comes complete with a backbox, door and hinge. The enclosures doors come with Lexan windows, two keys and a durable lock. The enclosures can handle the RAM-1032TZDS, RAX-1048TZDS, Main Annunciator Chassis.

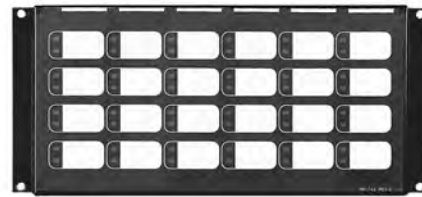
| | |
|-------------------------|------------------------------|
| BB-1001D / DR / DS / DB | 9" H x 12.75" W x 1.85" D |
| BB-1002D / DR / DS / DB | 18" H x 12.75" W x 1.85" D |
| BB-1003D / DR / DS / DB | 26.4" H x 12.75" W x 1.85" D |
| BB-1008D / DR / DB | 33" x 22.5" W x 1.85" D |
| BB-1012D / DR / DB | 45" H x 22.5" W x 1.85" D |

Optional Adder Modules



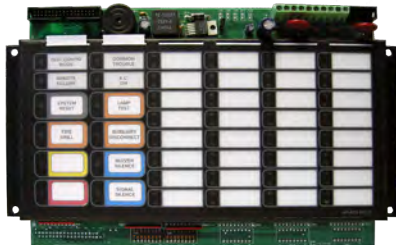
RAX-1048TZDS Programmable LED Annunciator Module

The RAX-1048TZDS Programmable LED Annunciator provides the FX-3500 with 48 Programmable Alarm/Supervisory Bi-colored LEDs & 48 Trouble LEDs which can be configured as: Alarm (Red), Supervisory (Amber), Trouble (Amber) or Monitor (Amber). The RAX-1048TZDS mounts in the FX-3500 enclosure.



IPS-2424DS Programmable Input Switches Module

The IPS-2424DS provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424DS connects to the main panel or the RAXN-LCD when mounted remotely. The IPS-2424DS occupies one display position in the BB-1000 or BB-5000 Series enclosures.



RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator

The RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS-CC has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. The RAM-1032TZDS-CC occupies one display position in the BB-1001WP(R)A or BB-1002WP(R)A enclosures.



RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module

The RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDSCC connects to the main panel or either the RAXN-4000LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS-CC occupies one display position in the BB-1002WP(R)A Series enclosures.



ALC-636 Dual Loop Controller Module

The ALC-636 Dual Analog Loop Controller Module provides two additional Signaling Line Circuits (SLC) to the FX-3500 consisting of 159 intelligent sensors and 159 intelligent modules per loop. The ALC-636 mounts in the FX-3500 enclosure.



IPS-4848DS Programmable Input Switches Module

IPS4848DS provides 48 programmable switches complete with bi-colored LEDs and slide in labels. It can be configured for ancillary functions such as zone by-pass or added common control functions. In a zone by-pass configuration, a group of addressable devices or hardwired circuits can be assigned to a programmable switch and when the switch is operated, those devices or zones are by-passed. The switches operate in a toggle operation for on and off. There are two LEDs for each switch; one for selection, the other is bi-colored to indicate point status when switch is returned to normal (unbypassed) position. Each switch: one for selection, the other is bi-colored to indicate point status when switch is returned to normal (unbypassed) position.



PR-300 Polarity Reversal/City Tie Module

The PR-300 provides outputs for city box and polarity reversal applications. As a city tie module the PR-300 provides an interface between the control panel indicating circuits and a master box. As a polarity reversal module the PR-300 provides an interface between the control panel and a reverse polarity receiver.

Remote Annunciators



RAM-3500-LCD Remote LCD Annunciator

The RAM-3500-LCD provides remote annunciation through a 4 line by 20 character LCD display. It is a direct mimic of the main panel display so that the LCD, LEDs and switches are an exact duplicate of the main display. The RAM-3500-LCD provides control switches for System Reset, Signal Silence, Fire Drill and Acknowledge, four Status Queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Monitor, along with a numeric keypad to access the menu functions. The RAM-3500-LCD mounts in separately orderable single unit enclosures or in larger enclosures that support up to two optional RAX-1048TZDS remote LED annunciators. All remote enclosures are equipped with a CAT-30 Lock and key.



RAX-LCD-Lite Remote LCD Annunciator

The FX-3500 also supports the RAX-LCD-LITE Remote LCD Annunciator. The RAX-LCD-LITE display mimics the main Fire Alarm Panel display at a remote location. It is equipped with a large 4 line x 20 character back-lit alphanumeric LCD display that uses a simple menu system complete with a directional keypad and switches for Enter, Menu, Cancel and Info. There are five types of enclosure available: the BB-1001, BB-1002, BB-1003, BB-1008, and BB-1012 which can take 1,2,3,8,12 chassis respectively.

Specifications

| FX-3500 Series Fire Alarm Control Panel | | |
|---|---|--|
| General | Digital signal processor based design, fully configurable from front panel with password protection | |
| Electrical ratings | AC line voltage | 120VAC 60Hz/240VAC 50Hz, 10A slow blow fuse on secondary of transformer |
| | Power supply rating | 29VAC 10A maximum (secondary of transformer) 120VAC 60Hz 3.1Amp (maximum primary of transformer) 240VAC 50Hz 1.57Amp (maximum primary of transformer) Total load not to exceed 10A at 24VDC |
| Battery | Type | 24VDC Gel Cell/Sealed lead acid – 10AH to 42AH |
| | Charging capability | 10AH to 42AH |
| | Charging current | 3A maximum |
| | Protection | 20A slow blow micro fuse built into WX-058 battery cable, field replaceable |
| | Standby current rating at full load | 1.25A |
| Addressable loops | Advanced Protocol mode with one or three loops with 159 addressable sensors and 159 addressable modules per loop. CLIP mode with one or three loops with 99 addressable sensors and 99 addressable modules per loop. The maximum loop resistance is 40 ohms. For a complete list of compatible devices see LT-1023 on http://www.mircom.com . | |
| | Power Limited / 22VDC / 350mA alarm maximum / 0.5 µF | |
| | Power Limited / 22VDC / 280mA normal standby maximum / 0.5 µF | |
| NAC Circuits | 4 supervised style Y (Class B) NAC circuits, configured as strobes or audibles. Terminals are labelled as “NAC 1”, “NAC 2”, “NAC 3” and “NAC 4”. | |
| | Rating | Power limited / Regulated 24V FWR / 1.5A @ 49C per circuit |
| | Max power allowed | Total 6.0A 1.5A per circuit |
| Aux supply 1 | Power limited / 24VDC regulated / 500mA max | |
| Aux supply 2 | Power limited / 24VDC regulated / 300mA max | |
| Unfiltered supply | Power limited / 24V FWR special application / 1.7A max at 49C List of Compatible Devices: RAM-1032TZDS(-CC), RAM-1032TZDS, RAM-3500-LCD, RAX-LCD-LITE | |
| Auxiliary relays | Common Alarm/ MSupv./Trouble/ Auxiliary Alarm | Must be connected to a listed power limited source of supply Form C/28VDC/1A max |
| RS-485 port | For remote annunciators. Terminals are labelled “RS-485”. | |
| Ground Fault Impedance | 10 K Ohms or greater | |
| Open Circuit Fault | 100 K Ohms | |
| Short Circuit Fault | 0.1 ohms or less | |
| Applicable Standards | NFPA 70, 72, 12, 12A, 12B, 13,15, 16, 2001, CAN/ULC-S559-13, UL-864 Rev. 10, ULC S524, CAN/ULC-S527-11 and ULC-S536 | |
| FX-3500 System Modules and Annunciators | | |
| RAM- 3500LCD | Remote Annunciator | Standby 70mA / alarm 100mA |
| RAX-LCDLITE | Remote Annunciator | Standby 65mA / alarm 80mA |
| RTI-1 | Remote Trouble Indicator | Normal standby 0mA / alarm 30mA maximum |
| PR-300 | Polarity Reversal and City Tie Module | |
| | City Tie | power limited / 24VDC unfiltered / 270mA max / 13.7 and 14.4 Ohms |
| | Polarity Reversal | power limited / 24VDC open / 12VDC at 3.5mA / 8mA max (shorted) |
| | Polarity Reversal Supv.Terminal | 24VDC (normal) / -24VDC (supervisory) / 0V (trouble) |
| | Polarity Reversal AlarmTerminal | 24VDC (normal) / -24VDC (alarm) / 0V (trouble) |
| | Current Consumption | standby 50mA / alarm 300mA (city tie in use) / alarm 70mA (city tie not in use) |

Battery Calculations

IMPORTANT NOTICE

The main AC branch circuit connection for Fire Alarm Control Unit must provide a dedicated continuous power without provision of any disconnect devices. Use #12 AWG wire with 600 volt insulation and proper over-current circuit protection that complies with the local codes. For specifications see Appendix D - Specifications And Features on page 92 of the Manual

Power Requirements (All currents are in amperes)

| Model Number | Description | Qty | | Standby | Total Standby | Alarm | Total Alarm |
|--|--|-----|---|---------|---------------|---|-------------|
| FX-3500 | FX-3500 FACP with Dialer | | X | 0.390 | = | 0.630 | = |
| ALC-636 | 636 Point Dual Loop Adder | | X | 0.120 | = | 0.200 | = |
| RAM-3500-LCD | Remote Annunciator with 4- line LCD Display | | X | 0.070 | = | 0.100 | = |
| RAX-LCD-LITE | Remote Annunciator with 4- line LCD Display | | X | 0.065 | = | 0.080 | = |
| PR-300 | Polarity Reversal and City Tie Module | | X | 0.050 | = | 0.300 | = |
| SRM-312W/312R | Smart Relay Module | | X | 0.030 | = | | = |
| RAM-1016TZDS | 16 Point Annunciator Chassis | | X | 0.050 | = | 0.150 | = |
| RAM-1032TZDS | 32 Point Remote Annunciator | | X | 0.050 | = | 0.300 | = |
| RAX-1048TZDS | 48 Point adder annunciator display | | X | 0.022 | = | 1 zone active: 0.026 2 zone active: 0.030 3 zone active: 0.035 4 zone active: 0.039 48 zone active: 0.262 | = |
| IPS-2424DS | Programmable Input Switches Module with 24 switches | | | 0.005 | | 0.022 | |
| IPS-4848DS | Programmable Input Switches Module with 48 switches | | | 0.010 | | 0.022 | |
| RTI-1 | Remote Trouble Indicator, Buzzer and LED | | X | 0.035 | = | 0.035 | = |
| MIX-1251AP(A) | Advanced Protocol Ion Smoke Detector (ULC) | | X | 0.0003 | = | 0.0050 | = |
| MIX-2251AP(A) | Advanced Protocol Photo Smoke Detector (ULC) | | X | 0.00036 | = | 0.0050 | = |
| MIX-2251TAP(A) | Advanced Protocol Photo Heat Detector (ULC) | | X | 0.00036 | = | 0.0050 | = |
| MIX-2251TMAP(A) | Advanced Protocol Acclimate Detector (ULC) | | X | 0.00036 | = | 0.0050 | = |
| MIX-5251AP(A) | Advanced Protocol Heat Detector (ULC) | | X | 0.0003 | = | 0.0050 | = |
| MIX-5251HAP(A) | Advanced Protocol High Temperature Heat Detector (ULC) | | X | 0.0003 | = | 0.0065 | = |
| MIX-5251RAP(A) | Advanced Protocol Rate of Rise Heat Detector (ULC) | | X | 0.0003 | = | 0.0065 | = |
| MIX-M500MAP(A) | Advanced Protocol Monitor Module (ULC) | | X | 0.0004 | = | 0.0052 | = |
| MIX-M500RAP(A) | Advanced Protocol Relay Control Module (ULC) | | X | 0.0003 | = | 0.0051 | = |
| MIX-M500SAP(A) | Advanced Protocol Supervised Control Module (ULC) | | X | 0.0004 | = | 0.0052 | = |
| MIX-M501DAP(A) | Advanced Protocol Dual Input Mini Monitor Module (ULC) | | X | | = | | = |
| MIX-M501MAP(A) | Advanced Protocol Mini Monitor Module (ULC) | | X | 0.0004 | = | 0.0020 | = |
| MIX-M502MAP(A) | Advanced Protocol Conventional Zone Module (ULC) | | X | 0.0004 | = | 0.0052 | = |
| B501BH(A) | Intelligent Sounder Base (ULC) | | X | 0.001 | | 0.015 | |
| B501BHT(A) | Intelligent Temporal Tone Sounder Base (ULC) | | X | 0.001 | | 0.015 | |
| APB200(-LF) | Sounder Base (ULC) | | X | 0.01 | = | 0.140 | = |
| APB200(CO)A | Sounder Base (ULC) | | X | 0.01 | = | 0.140 | = |
| INX-10A | Main Chassis (10 Amp) | | X | 0.0045 | = | 0.0045 | = |
| Device & Remote LEDs (Maximum 20 per loop) | | | X | | | | = |
| Signal Load (bells, horns, strobes, and etc.) | | | X | | | | = |
| Auxiliary Power Supply (Aux 1, Aux 2, Un-filtered) | | | | | = | Alarm | = |
| Total currents (Add above currents) | | | | | (A) | | (B) |

Battery Capacity Requirement

Battery (AH) = (Standby Current Total x Discharge Time) + (Alarm Current Total x Alarm Time)
 ([STANDBY (A) _____] X [(24 Hours) ____]) + ([ALARM (B) _____] X [Alarm in Hr.] _____) = (C) _____AH
 Total Alarm Current must be **10** amperes or less. NAC Circuits must not exceed 6 amperes.

Battery Selection

Battery Size = Multiply (C) by 1.20 to derate battery.

See the following table for the recommended Mircom batteries for use with this panel

| Battery Model | Battery Size | UL/ULC Rating |
|---------------|--------------|---------------|
| BA-110 | 12AH | 10AH |
| BA-117 | 18AH | 17AH |
| BA-124 | 26AH | 24AH |
| BA-140 | 42AH | 40AH |

BA-110 (12Ah) and BA-117 (18Ah) will fit into the BBX-1024DS.

To house BA-124 (26Ah) and BA-140 (42Ah) batteries a BC-160 Battery Cabinet is required.

Use of alternative batteries may result in failure of the panel to meet agency and regulatory requirements, and may result in shortened battery life.

Batteries should be tested regularly, and replaced at least every three years. If the Battery Trouble indicator activates, obtain required service.



NOT TO BE USED FOR INSTALLATION PURPOSES.
 THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND
 NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.

CAT. 5690

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Ordering Information

| Model | Description |
|---|--|
| FX-3500 | Single Loop, 318 Point Intelligent Fire Alarm Control Unit with built-in UDACT/Digital Communicator, expandable to 954 points with ALC-636 Dual Loop controller module. Includes UB-1024DS back box and DOX-1024DSR red door. |
| FX-3500RCU | All features of the FX-3500 plus releasing capability included. |
| FX-3500W | Single Loop, 318 Point Intelligent Fire Alarm Control Unit with built-in UDACT/Digital Communicator, expandable to 954 points with ALC-636 Dual Loop controller module. Includes UB-1024DS back box and DOX-1024DS white door. |
| FX-3500RCUW | All features of the FX-3500W plus releasing capability included. |
| Optional Adder Modules | |
| ALC-636 | Dual Loop Controller Module |
| PR-300 | Polarity Reversal/City Tie Module |
| PCS-100 | Power Supply Interface Board |
| IPS-2424DS | Programmable Input Switches Module |
| IPS-4848DS | Programmable Input Switches Module |
| Remote Annunciators | |
| RAM-3500-LCD | Remote LCD Annunciator with 4-line display. Mounts in a BB-1000 Series enclosure. |
| RAX-LCD-Lite | Remote Annunciator with Large LCD display. Mounts in a BB-1000 Series enclosure. |
| RAX-1048TZDS | Programmable Remote LED Display Adder with 48 programmable bi-colored LEDs and 48 Trouble LEDs. Mounts in a BB-1000 Series enclosure. |
| RAX-1048TZDS-CC | Conformal coated Adder Annunciator Chassis c/w 48 Bi-Colored LEDs |
| RAM-1016TZDS | 16 Zone Remote LED Annunciator with trouble LEDs. Mounts in a BB-1000 Series enclosure. |
| RAM-1032TZDS | 32 Zone Remote LED Annunciator with trouble LEDs. Mounts in a BB-1000 Series enclosure. |
| RAM-1032TZDS-CC | Conformal coated 32 zone remote LED annunciator with trouble LEDs |
| AGD-048 | Graphic Annunciator Adder Driver Module |
| MGD-32 | Graphic Annunciator Driver Module |
| RTI-1 | Remote Trouble Indicator, Buzzer and LED |
| Enclosures for Remote Annunciators | |
| BB-1001D | Remote enclosure, white door. Houses 1 module. |
| BB-1001DR | Remote enclosure, red door. Houses 1 module. |
| BB-1002D | Remote enclosure, white door. Houses 2 modules. |
| BB-1002DR | Remote enclosure, red door. Houses 2 modules. |
| BB-1003D | Remote enclosure, white door. Houses 3 modules. |
| BB-1003DR | Remote enclosure, red door. Houses 3 modules. |
| BB-1008D | Remote enclosure, white door. Houses 8 modules. |
| BB-1008DR | Remote enclosure, red door. Houses 8 modules. |
| BB-1012D | Remote enclosure, white door. Houses 12 modules. |
| BB-1012DR | Remote enclosure, red door. Houses 12 modules. |
| BB-1001WP(R)A | Weather Protected Enclosure Enclosure Houses one module. White. BB-1001WPRA for red. |
| BB-1002WP(R)A | Weather Protected Enclosure Enclosure Houses two modules. White. BB-1002WPRA for red. |
| Other Items | |
| INX-10A | Intelligent NAC Expander Panel |
| BC-160 | External Battery Cabinet |
| SRM-312W | Smart Relay Module with White Enclosure. Can support up to 12 relays. |
| SRM-312R | Smart Relay Module with Red Enclosure. Can support up to 12 relays. |
| MP-3500R | Solenoid EOL Module (Red) - 47K. |
| MP-3500W | Solenoid EOL Module (White) - 47K. |
| MP-300 | End of Line Plate, White. |
| MP-300R | End of Line Plate, Red. |

Note: For releasing application please see the Releasing Guide LT-1091



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Rev. 10