







LifeSafety Power | PH 888.577.2898 | TechSupport@LifeSafetyPower.com

Table of Contents

Description2
Specifications2
Regulatory Information
Mounting the Power Control Module2
Power Control Module Overview
Connecting the Power Control Module6
Reverse Protection Diodes7
Input and Output Wiring8
RS485 Addressing
Using the M810
Programming12
Application Example16

Description

The M8/M8P power control modules add 8 zones to an FPO power supply system for powering and monitoring locks, cameras, or other critical devices. The M8/M8P MUST be used with a NetLink module. The M8/M8P accepts either one or two voltage sources, either of which are selectable for output on a zone-by-zone basis. Each input is fully programmable via software to accept a voltage, dry contact, or open collector input. Each zone output is selectable via software for FAI operation, constant output, maglock output, or fail-safe or fail-secure doorstrike outputs. Output zone 8 is also programmable as a dry contact output. The suffix "P" added to the model number denotes Class 2 Power Limited outputs.

Specifications

Power Input	Voltage		12 or 24VDC nominal				
	Current		12A maximum				
	Standby	Current	300mA				
			All lock control relays active				
Zone Input	Voltage	Input	12 or 24VDC				
	Max Cur	rent	10mA				
Zone Output	Voltage		Same as input				
	M8 Current		3.0A resistive				
	M8P	Current	2.5A resistive (Class 2 Power Ltd)				
Fuse	3A		ATM automotive style (M8 only)				
Size	M8/M8P		6.00" x 4.00" x 1.4" (152mm x 64mm x 36 mm)				
Weight	M8/M8	P	0.35lb (0.16kg)				

Regulatory Information

The equipment discussed within this manual has been tested to the following standards:

- UL294, UL603, UL1076
- ULC S318, ULC S319, ULC 60839-11-1
- CSA C22.2 #205
- CSFM Approved

Mounting the Power Control Module

Mounting of the board to an enclosure is via the four snap-in standoffs supplied.

- 1. Locate the appropriate mounting holes in the enclosure and snap the standoffs into the holes.
- 2. Align the board mounting holes with the standoffs (be sure the PC board is properly oriented) and snap the board onto the standoffs.
- 3. Connections to the module shall be completed within the same room, not exceeding a length of 3 m.



Class 2 power limited wiring must be seperated from non-power limited wiring by a minimum of 1/4 inch and must use seperate knockouts.

For ULC compliance, installation and all wiring methods shall be in accordance with the Canadian Electrical Code, C22.1, Part I, Section 32.

All input wiring to the module shall be located within the same room (3 m).

The installation and all wiring methods shall be in accordance with ANSI/ NFPA70 and all local codes.

THIS PAGE BLANK

Power Control Module Overview



OUTPUT FIELD WIRING 1–8

Power Control Module Overview

Zone Inputs (INPUT 1 – 8)

These are the input terminal strips. These terminals are removable and accept wire sizes from AWG12 - AWG22. The terminals are labeled on the PC board near the terminal strip. See the Input Wiring section of this manual for more information.

- When using a dry contact input, the contact is connected across the A and B terminals. It is normal to measure a voltage across these two terminals. This voltage is current limited and will not damage the activation contact.
- When using a voltage input, the voltage is connected to the B terminal. The activation voltage must be common grounded with the system voltage and must be between 12 and 24VDC. Leave the A terminal disconnected.
- When using an open collector input, place a jumper across the A and B terminals and connect the open collector to B. Note that the input source must be common grounded with the M8/M8P board's power source.

2 FlexIO Connectors

These connectors pass the FAI and Fault signals to the M8/M8P board and pass the FlexIO buss out to other accessory boards in the system.

❸ Output Status LEDs (1 – 8) – Green/Blue

These LEDs indicate the status of the output. LED numbers correspond with the zone number (e.g. LED 1 for Output 1).

When Powering Lock Devices:

- **ON Steady** Door Locked (Fuse or PTC Intact)
- SLOW Flashing (1 per second) Door Unlocked (Either due • to Zone Input or FAI)
- FAST Flashing (4 per second) Fault Detected on Zone
- **OFF** Fuse or PTC open, or zone disabled in software

When Set for Constant Output:

- **On Steady** Output Powered (Fuse or PTC Intact)
- SLOW Flashing (1 per second) Output Unpowered (Due to FAI)
- FAST Flashing (4 per second) Fault Detected on Zone
- **OFF** Fuse or PTC open, or zone disabled in software

These LEDs are bi-color and indicate the output voltage for each output as follows:

- Green 12V Output
- Blue 24V Output •

4 Fault LED (FAULT) – Yellow

This LED lights when the M8/M8P detects a ruptured output fuse, tripped PTC, or other fault condition (including a tripped upper or lower limit - See the programming section for more information). This fault condition also transmits to the power supply through the FlexIO.



5 Buss Selection Yellow Jumpers (1-8)

The M8/M8P can accept up to two power inputs connected to B1 and B2. This jumper selects which power supply input is used for the output. If a single power supply is used, set this jumper for Position 1.

B1 This position selects the power supply connected to B1

B2 This position selects the power supply connected to B2

6 Zone Outputs (OUTPUT 1-8)

These are the output terminals. These terminal strips are removable and accept wire sizes from AWG12 – AWG22. The terminals are labeled on the PC board near the terminal strip. See the Output Wiring section for more information.

🗥 The M8 has reverse protection diodes across each output. If a delay is present on lock release, the diode should be removed from the circuit. See page 7 for more information.

Zone 8 Wet / Dry Output Selection Jumpers

Zone 8 of the M8 is able to be set as a dry contact output. Factory default setting is all four jumpers set to "Wet". To set the zone as a dry output, all four jumpers must be set to "Dry".

8 Output Fuses (F1 – F8) – Optional

When using the fused version of the M8, these are the fuses for each zone output. Fuse numbers correspond with the zone (e.g. F1 is the fuse for OUT1). When using the M8P (PTC) version, these fuses will be replaced with non-replacable PTCs.

SPI / RS485 Selection Jumper

This jumpers selects between the SPI port and RS485 port for connection method to the NetLink.

D SPI Connector

This connector accepts the SPI cable which provides communication between the M8/M8P and the NL4 or NLX board. If not using RS485, this cable MUST be connected at all times for proper operation of the M8/M8P.

1 Buss Input Connectors (B1, B2, BR)

These fastons are the buss input connections.

The voltage on the B1 buss comes from a the first power supply. This voltage will be directed to any outputs whose Buss Selection Jumper is set in the B1 position.

The voltage on the B2 buss comes from a second power supply or a B100/B150 secondary supply in dual voltage systems. This voltage will be directed to any outputs whose Buss Selection Jumper is set in the B2 position. If the M8/M8P is being used in a single voltage system, these fastons are left unused.

BR is the DC Common buss in the system. All DC boards in the system must have their BR fastons wired together for proper operation.

12 RS485 Address Switches

These switches select the RS485 address for the M8 when using the RS485 connection. These switches are used only when the optional RS485 board is present (See #13). See the RS485 addressing section for more information on these switches.

B RS485 Board - Optional

This optional board provides the RS485 terminals for connection to an NLX network board. See the NLX manual for connection information.

Connecting the Power Control Module

🗥 Remove all AC and battery power from the power system before adding or replacing an accessory board.



Each of the **B1**, **B2**, **BR**, and **FlexIO** busses has *two connectors*. These connectors may be used interchangeably.

For example: **FlexIO** from the power supply may be connected to either of the M8's FlexIO connectors, the Main DC voltage source may connect to either B1 terminal, etc.



Reverse Protection Diodes

Reverse Protection Diodes

The outputs of the M8/M8P have built-in reverse protection diodes. If a delay in lock release is present the diode from that zone should be removed from the circuit as shown below.

A Only remove the diodes from outputs requiring their removal!

M8 / M8P Diode Removal

The diodes on the M8/M8P are on the top side of the board between the output terminals and the edge of the board. To remove the diode from the output circuit, simply cut and separate the exposed diode lead for the desired output zone - leave the diode body soldered to the pcb.





Input and Output Wiring

INPUT WIRING



Each input on the **M8/M8P** has an "**A**" terminal and a "**B**" terminal.

- When using a dry contact to activate the input, the contact is placed across these terminals. *It is normal to measure a voltage across these terminals when set for a dry contact input.*
- When set for a voltage input, the voltage to activate the zone is placed on the "**B**" terminal. The "**A**" terminal is left disconnected. Note that the voltage used to activate the zone must be common grounded with the M8 board's power source.
- To use a DC ground or an open collector (transistor) as an input, place a wire jumper across the "A" and "B" terminals and connect the ground/open collector to the "B" terminal to activate the input. Note that the input source must be common grounded with the M8 board's power source.



Each output on the **M8/M8P** has a "+" and "-" marked adjacent to the terminal to indicate polatity.

CAUTION When powering magnetic loads such as maglocks, door strikes, solenoids, etc, each of these loads must have a reverse protection diode either built-in or external to the device.



RS485 Addressing

These switches set the RS485 address when using the optional RS485 module on the M8 board. The switches set the address as shown in the table below. See the NetLink manual for more information.

Address	Switch Settings	Address	Switch Settings
0	On On On On	8	Off On On On
1	On On On Off	9	Off On On Off
2	On On Off On	10	Off On Off On
3	On On Off Off	11	Off On Off Off
4	On Off On On	12	Off Off On On
5	On Off On Off	13	Off Off On Off
6	On Off Off On	14	Off Off Off On
7	On Off Off Off	15	Off Off Off Off

Using the M8 Power Control Module

This section discusses software programming of the M8/M8P board. It assumes a basic understanding of the NetLink browser GUI interface. Consult the NetLink manual (P03-037) for more information on using the browser interface.

Accessing the M8/M8P from the NetLink interface

From the home page of the NetLink interface, click on the M8 in the "Connected Devices" section.

The M8 Status Page

The status page of the M8/M8P gives an overview of the current state of the M8/M8P board and allows manual output control.

Return Button (Left Arrow) - This button returns to the NetLink Home page. *Any changes must be saved prior to clicking this button or the changes will be lost.*

Reboot Settings Button - This button opens the reboot settings page for the M8 module. See the Reboot Settings section for more information.

Programming Button - This button opens the programming page for the M8 module. See the Programming section for more information.

Device ID - This field is the unique ID given to the M8 by the NetLink.

Model - This is the model number of the board being monitored. In this case, "M8".

AC Power - This field gives the AC Power status of the connected power supplies. "ON" with a green background indicates that AC power is present.

M8 Notes - This field allows the user to enter any notes regarding the M8 board. Click the Save Settings button to save the notes.

Output # - This column shows each zone number and provides a checkbox for selecting one or more zones.

Output Description - This column shows the programmable descriptive name given to the zone. It can be changed directly by clicking on the text field and typing the description for each zone. Example descriptions include "Front Door Lobby, Mag", "Second Floor Door Holders", or "Cash Register 13 PTZ". Click "Save Settings" to save the descriptions.

Tip - Include the model number of the powered device in the output description so that is a problem with the device is indicated, the technician knows what device to bring for replacement.

Voltage (V) - This column shows the measured voltage at the output terminals of the M8 board for each zone. This is only the voltage at the output of the M8/M8P and does not indicate power at the field device.

Current (A) - This column shows the measured current being drawn from the output terminals of the M8/M8P for each zone.

Power (W) - This column shows the calculated power being supplied by the output terminals of the M8/M8P for each zone.

Power Ready - This column indicates whether power is available for each zone. It does not indicate that the output terminals are powered. This column should be "Yes" - if any zone indicates "No", verify jumper placement, fuse integrity, and proper DC voltage at the B1/B2 inputs of the M8/M8P board.

Control Input - This column indicates the state of the input terminals for each zone as "Active" or "Inactive". For example, if a zone is programmed for an Normally Open Input, the "Control Input" field for that zone will show "Active" when a closure is placed across the input terminals for that zone.

FAI State - This column shows the FAI status for each zone. If FAI control is disabled for the zone, the field will show "Disabled". If enabled, the field will show "Active" or "Inactive" to show the FAI status.

Cycle Count - This column shows the total number of cycles for each output since the count was last reset. Note that an activation must be present for at least 3 seconds to register. This counter can be used to monitor lock activations vs. rated life.

Output Status -This column shows the status of each zone of the M8/M8P. "Normal" indicates that the zone is working and configured correctly, and that there are no faults on that zone. "Fault" indicates a problem with that zone. Verify fuse/PTC integrity, jumper placement, and field wiring integrity.

Enable / Disable Selected Outputs - These buttons will manually enable or disable any outputs whose Output # checkbox is selected.

Enable / Disable All Outputs - These buttons will manually enable or disable all outputs on the M8.

Reset Selected / All Outputs - These buttons will manually disable outputs for 5 seconds, then return to normal. This function is helpful for resetting devices such as routers which would cause network loss when powered down.

Reset Selected / All Cycle Counts - These buttons will reset the cycle counter for one or more outputs to zero.

Save Settings - This button saves the output descriptions and M8 Notes fields when changed.

M8 Status Page

SYSTEM POWERCOM MANAGER POWERCOM									$M^{\mathbb{R}}$
Home	Reporting Con	figure 1	ools				ا	msm Firmw	are: 9.82.1
¢	Client ID	ISCAN							
Reboot Sett	ings Site ID	LSP Uni	v - FPO DV						
Programm	<mark>ing</mark> Date	Mon Dec	23 2024			Time 11:1	1:22		
Device ID M	8-1 Model M8	AC Pow	er <mark>ON</mark>	M8 Notes					Ver: 0.80
Output #	Output Description	Voltage (V)	Current (A)	Power (W)	Power Ready	Control Input	FAI State	Cycle Count	Output Status
□ 1	West Entrance 1	0.00	0.00	0.00	Yes	Active	Disabled	2	Normal
□ 2	S.Lab 104	0.00	0.00	0.00	Yes	Inactive	Inactive	8	Normal
□ 3	Science Lab 102	0.00	0.00	0.00	Yes	Inactive	Inactive	14	Normal
□ 4	S. Ent. #5 Hes 9400	0.00	0.00	0.00	Yes	Inactive	Disabled	4	Normal
□ 5	Stockroom 1	12.40	0.00	0.00	Yes	Disabled	Disabled	2	Normal
□ 6	Stockroom 2	12.40	0.00	0.00	Yes	Disabled	Inactive	2	Normal
□ 7	IT Closet	12.40	0.00	0.00	Yes	Active	Disabled	2	Normal
8	Shipping Dock	12.40	0.00	0.00	Yes	Disabled	Disabled	2	Normal
Enable Selected Outputs Reset Selected Outputs Reset Selected Cycle Count Save Settings							ettings		
Enable	All Outputs	Disable All Outp	outs	Reset All Ou	tputs	Reset All Cycl	e Count		

The M8 Status Page

Programming the M8 Power Control Module

From the Status page of the NetLink interface, click the "Programming" button near the top left corner. This will open the M8's configuration page.

"Return" Button (Left Arrow) - This button returns to the M8 Status page. *Any changes must be saved prior to clicking this button or the changes will be lost.*

"Save Settings" Button - This button will save all changes on the page.

"Fill All" Button (top) - This button will take all settings from Zone 1 and copy them to Zones 2 through 8.

"Import Settings" Button - This button opens a page allowing you to select an M8 Configuration file to import. Click the Browse button to select the file, then click open. After selecting the file, click "Download" then "Confirm".

"Export Settings" Button - This button saves the configuration of the M8 zones to a file, which may be imported to other M8 boards. If prompted after clicking, select "Save File". Check the "Include Output Descriptions" selection to include the output descriptions in the export file.

"Fill All" Buttons (Column) - Each column has a "Fill All" button. This button takes the setting from Zone 1 of that column only and copies it to Zones 2 through 8.

Output # - This column shows each zone number

Output Description - This column shows the programmable descriptive name given to the zone.

Control Input Type - This column has a drop-down list for the type of input to be used to activate the zone. Choices include:

Normally Closed - Normally Closed (NC) dry contact. The input will be activated when the contact is opened.

Normally Open - Normally Open (NO) dry contact. The input will be activated when the contact is closed.

Open Collector - An open collector transistor output will activate the input when the input is pulled to ground.

Voltage - A positive voltage (12-24VDC) will activate the input.

Disabled - The input terminals will have no effect.

Output Load Type - This column has a drop-down list for the type of device being powered. Select the type of device closest to the device being powered. Choices include:

Maglock - The output power will be removed when the input is activated. Zone 8 also adds NC Contact for dry contact operation (See page 5 #7)

Fail-Secure Strike - The output power will be applied when the input is activated. Zone 8 also adds NO Contact for dry contact operation (See page 5 #7).

Constant ON - The output will always have power, regardless of the state of the input.

Unlock on FAI Activation - This column has a drop-down list to select whether an FAI condition will affect the output of each zone. Choices are "Yes" and "No"

Unlock on AC Loss - This column has a drop-down list to select whether an AC Loss will affect the output of each zone. Choices are "Yes" and "No". This is useful for regions where it is required to unlock all doors upon a loss of AC.

Email Alert on Fault - This column has a drop-down list to select whether fault conditions on each zone will send an email alert when email is configured in the NL4. Choices are "Yes" and "No".

Voltage Lower Limit (V) - This column allows setting a lower voltage limit to trigger a fault for each zone. For example, if the lower voltage limit is set for 23.5V, a fault will be triggered if the voltage on that zone goes below 23.5V. This limit will not be triggered when the zone is deactivated via the zone's input, FAI, or other intended deactivation.

Voltage Upper Limit (V) - This column allows setting an upper voltage limit to trigger a fault for each zone. For example, if the upper voltage limit is set for 26.0V, a fault will be triggered if the voltage on that zone goes above 26.0V.

Current Lower Limit (A) - This column allows setting a lower current limit to trigger a fault for each zone. For example, if the lower current limit is set for 1.0A, a fault will be triggered if the current on that zone falls below 1.0A. This limit will not be triggered when the zone is deactivated via the zone's input, FAI, or other intended deactivation.

Current Upper Limit (A) - This column allows setting an upper current limit to trigger a fault for each zone. For example, if the upper current limit is set for 2.0A, a fault will be triggered when the current on that zone goes above 2.0A.

Cycle Count Limit - This column allows setting a limit to trigger a fault when the zone is activated a certain number of total cycles.

Output Limit Setting Aid - This section allows automatic setting of the upper and lower voltage and current limits for each output. To utilize the automatic settings, all output field wiring must be completed to the output devices to be powered. Enter the desired percentage for each limit, and click the "Start Measurement" button. The M8 will briefly cycle each output on and off and measure the voltage and current levels for each device. When complete, the upper and lower limits will be set based on the entered percentages.

The Programming Page

4					M	SYSTE			/ER	CC) M®
	Home Reportin	g Config	ure Tools						🕞 msm	Firmwa	re: 9.82.1
		Client ID	ISCAN								
		Site ID	LSP Univ - FPO	DV							
¢		Date	Mon Dec 23 2024	4			Time 1	1:12:22			
S	ave Settings	Fill All	l			Include Ou	tput Descrip	otion 🗹 🛛	Export Settings	s Imp	ort Settings
Outpu #	t Output Description	Control Input Type	e Output Load Type	Unlock on FAI Activation	Unlock on A(Loss	Email Alert on Fault	Voltage Lower Limit (V)	Voltage Upper Limit (V)	Current Lower Limit (A)	Current Upper Limit (A)	Cycle Count Limit
	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All
1	West Entrance 1	Normally Closed	✓ Maglock ✓	No 🛩	Yes 🗸	Yes 🗸	8.68	16.12	0.00	1.20	100000000
2	S.Lab 104	Normally Open	✓ Fail Secure Strike ✓	Yes 🗸	No 🗸	Yes 🗸	8.68	16.12	0.00	1.20	100000000
3	Science Lab 102	Normally Open	▼ Fail Secure Strike ▼	Yes 🗸	No 🗸	Yes 🗸	17.61	32.70	0.40	0.93	100000000
4	S. Ent. #5 Hes 9400	Normally Open	✓ Fail Secure Strike ✓	No 🗸	No 🗸	Yes 🗸	8.72	16.19	0.00	1.20	100000000
5	Stockroom 1	Disabled	Constant ON	No 🗸	No 🗸	Yes 🗸	8.68	16.12	0.00	1.20	100000000
6	Stockroom 2	Disabled	▼ Fail Secure Strike ▼	Yes 🗸	No 🗸	Yes 🗸	8.68	16.12	0.00	1.20	100000000
7	IT Closet	Normally Closed	✓ Fail Secure Strike ✓	No 🗸	No 🗸	Yes 🗸	8.70	16.15	0.00	1.20	100000000
8	Shipping Dock	Disabled	Constant ON	• No •	No 🗸	Yes 🗸	8.68	16.12	0.00	1.20	100000000
Output Limit Setting Aid											
Set voltage Lower limits to 30 % below the measured values Set current Lower limits to 40 % below the measured values											
	Set voltage upper lir	mits to 30	% above the measure	ed values		Set current	upper limits	to 40	% above the	measured	alues
				Start I	Measureme	nt					

Output Limit Setting Aid aids in setting the output voltage and current limits of all outputs to a certain percentage above and below the measured value. Verify that all outputs are connected to their normal operating load and be aware that during this process ALL outputs will be simultaneously powered. Enter the desired percentage values for upper and lower limits, then click the "Start Measurement" button. The process will take approximately 10 seconds, after which the upper and lower limits of all output voltages and currents will be set according to the entered percentages.

The M8 Programming Page

M8 Reboot Settings

From the Status page of the NetLink interface, click the "Reboot Settings" button near the top left corner. This will open the page allowing for the setup of automatic output resetting based on conditions.

"Return" Button (Left Arrow) - This button returns to the M8 Status page. *Any changes must be saved prior to clicking this button or the changes will be lost.*

"Save Settings" Button - This button will save all changes on the page.

"Fill All" Button (top) - This button will take all settings from Zone 1 and copy them to Zones 2 through 8.

"Fill All" Buttons (Column) - Each column has a "Fill All" button. This button takes the setting from Zone 1 of that column only and copies it to Zones 2 through 8.

Output # - This column shows each zone number

Output Description - This column shows the programmable descriptive name given to the zone.

Enable Reboot on Fault - Setting this column to "Yes" will enable automatic rebooting for the selected output when the voltage/current goes within a specified range.

Enable Reboot Schedule - Setting this column to "Yes" will cause the output to reset according to the schedule at the bottom of the page.

Voltage Lower Limit - If the voltage is equal to or HIGHER than the value programmed here for longer than the "Maintain Seconds" setting, the output will reset. Value must be between 0 and 40.

Voltage Upper Limit - If the voltage is equal to or LOWER than the value programmed here for longer than the "Maintain Seconds" setting, the output will reset. Value must be between 0 and 40.

Current Lower Limit - If the current is equal to or HIGHER than the value programmed here for longer than the "Maintain Seconds" setting, the output will reset. Value must be between 0 and 3.

Current Upper Limit - If the current is equal to or LOWER than the value programmed here for longer than the "Maintain Seconds" setting, the output will reset. Value must be between 0 and 3.

Maintain Seconds - This field sets how long the output needs to be within the programmed range before the output will reset. If the output is within the range for less than this time, the output will not reset.

Times of Each Day - This field sets the maximum times per day that the output will reset.

Schedule Auto Reboot - Entering a time and date here will reset any output whose "Enable Reset Schedule" field is set to "Yes" at that time and date. Entering a number in the "Interval Days" field will set a recurrance for that reset. For example, entering "2" will cause the output(s) to reset every other day.

Details on Using the Voltage and Current Limit Reboot Settings

The voltage and current limit settings will reboot an output if the voltage or current is BETWEEN the two values programmed. For example, if the lower current limit is set to 2A and the upper current limit is set to 3A, then the output will reset if the output is between 2A and 3A for more than the maintain time set for the output. If the current is 1.9A, the output will not reset. To set a single trigger point, set the other value to the maximum or minimum range.

Example 1 - Reboot if current goes above 2.5A

- Set upper limit to the maximum (3A)
- Set the lower limit to 2.5A.

Example 2 - Reboot if current goes below 1.0A

- Set upper limit to 1.0A
- Set the lower limit to the minimum (0A).

Example 3 - Reboot if voltage goes above 13.5V

- Set upper limit to the maximum (40V)
- Set the lower limit to 13.5V.

Example 4 - Reboot if voltage goes below 11.5V

- Set upper limit to 11.5V
- Set the lower limit to the minimum (0V).

The Programming Page

SYSTEM POWERCOM MANAGER POWERCOM										
н	ome Repo	orting Conf	igure Tool	s			🕞 msr	n Firmw	are: 9.82.1	
		Client ID	ISCAN							
		Site ID	LSP Univ -	FPO DV		_				
¢		Date	Mon Dec 2	3 2024		Time 11:1	12:59			
Save Settings Fill All										
Output #	Output Description	Enable Reboot on Fault	Enable Reboot Schedule	Voltage Lower Limit >= (V)	Voltage Upper Limit <= (V)	Current Lower Limit >= (A)	Current Upper Limit <= (A)	Maintain Seconds	Times of Eachday	
		Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	
1	West Entrance 1	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
2	S.Lab 104	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
3	Science Lab 102	No 🛩	No 🗸	0.00	0.00	0.00	0.00	0	0	
4	S. Ent. #5 Hes 9400	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
5	Stockroom 1	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
6	Stockroom 2	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
7	IT Closet	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
8	Shipping Dock	No 🗸	No 🗸	0.00	0.00	0.00	0.00	0	0	
Sche	Schedule Auto Reboot									
Schedule at Date(Year-Month-Day): 0 - 0 Time(Hour:Minutes) 0 : 0 Interval Days 0										

The M8 Reboot Settings Page

M8/M8P Application Example



M8/M8P Application Example

This section shows various input and output types all wired to a single M8 board. These are for example purposes only and your exact application may not be shown.

Zone 1

24V Mag Lock Output, Voltage Input

This zone shows a typical 24V Mag Lock application, using a voltage input on the zone. The door can be configured via software to unlock upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B1

Zone 2

12V Mag Lock Output, NC Relay Contact Input

This zone shows a typical 12V Mag Lock application, using a NC relay contact as the input for the zone. The door can be configured via software to unlock upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B2

Zone 3

12V Door Strike Output, Open Collector (transistor) Input

This zone shows a typical 12V Door Strike application, using an open collector (transistor) input on the zone. The door can be configured via software to unlock upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B2

Zone 4

24V Door Strike Output, NO Relay Contact Input

This zone shows a typical 24V Door Strike application, using a NO relay contact as the input for the zone. The door can be configured via software to unlock upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B1

Zone 5

12V Reader Power, no control input

This zone shows continuous 12V auxiliary power for powering a device such as a reader. The output can be configured via software to remove power upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B2

Zone 6

24V Door Holder Power, no control input

This zone shows continuous 24V auxiliary power for powering devices such as door holders. The output can be configured via software to remove power upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B1

Zone 7

12V REX Power, no control input

This zone shows continuous 12V auxiliary power for powering devices such as REX devices. The output can be configured via software to remove power upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B2

Zone 8

24V Camera Output, no control input

This zone shows continuous 24V auxiliary power for powering devices such as PTZ Cameras. The output can be configured via software to remove power upon an FAI signal being received from the FPO Power Supply.

Jumper Position: B1

P03-036 Rev A10 01/25

LifeSafety Power

10027 S 51st St, Suite 102 Phoenix, AZ 85044 USA **www.lifesafetypower.com** Phone (888) 577-2898 info1@lifesafetypower.com

IMPORTANT

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. LifeSafety Power makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. LifeSafety Power's only obligations are those in the LifeSafety Power Standard Terms and Conditions of Sale for this product, and in no case will LifeSafety Power or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notic. In addition, LifeSafety Power reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.

© 2025 LifeSafety Power. All rights reserved