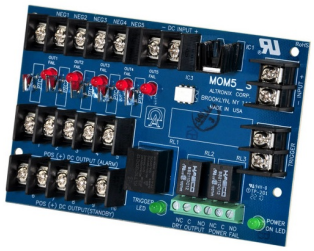


Altronix MOM5C Outlet Access Power Distribution Module Installation Guide

More than just power.™
MOM5C
Multi-Output Power Distribution Module for Access Control
Installation Guide

Rev. 013019
Installing Company: _____ Service Rep. Name: _____
Address: _____ Phone #: _____

Contents

Overview:

Altronix MOM5C multi-output power distribution module converts one (1) non-power-limited DC voltage input to five (5) power-limited outputs. Each output will route power to a variety of access control hardware and devices which includes Mag Locks, Electric Strikes, Magnetic Door Holders, etc. These outputs will operate in both failsafe and fail-secure modes. Controlled trigger input is achieved through normally open (NO) or normally closed (NC) supervised input or the polarity reversal from an FACP (Fire Alarm Control Panel). A form “C” dry output relay will enable HVAC Shutdown, Elevator Recall or trigger auxiliary devices.

Specifications:

Agency Listings:

- **UL294*** 7th edition.
  Access Control System Units.
  UL1481 Standard for Safety for Fire Protective Signaling Systems.
- **An** NYC Department of Buildings Approved.
- **CSFM** California State Fire Marshal Approved.
- NFPA72 compliant.

Input:

- 12VDC or 24VDC from the power supply.

Output:

- Five (5) individual 12VDC or 24VDC power-limited Class 2 outputs.
- The current limit is 2A @ 12VDC or 24VDC per output.

***Access Control Performance Levels:**
Destructive Attack – I; Endurance – IV; Line Security – I; Stand-by Power – I.
Visual Indicators:

- Red LEDs indicate condition of each power output.
- Power and input trigger LEDs.

Supervision:

- Fire Alarm Panel or Access Control System trigger inputs. (NO or NC supervised trigger input and polarity reversal trigger input).
- Output relay indicates that unit is triggered. (Form “C” contact rated 1A @ 28VDC).
- Power fail supervision relay (Form “C” contact rated 1A @ 28VDC).

Special Features:

- Will interface with most UL Listed Power Supplies.

Enclosure Dimensions:

8” x 7.25” x 3.5” (215.9mm x 190.5mm x 88.9mm).

Installation Instructions:

1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure’s upper keyholes over the two upper screws, level and secure. Mark the position of the lower two

holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws (Enclosure Dimensions, pg. 8).

2. Connect the DC output of the power supply to the terminals marked [– DC Input +] carefully observing polarity.
3. Connect door strikes (fail-secure) positive to terminals marked [1 through 5 Pos. (+) DC Output (Alarm)] and negative to [NEG1] through [NEG5] (Fig. 7, pg. 6).
4. Connect mag locks, and door holders (fail-safe) positive to terminals marked [6 through 10 Pos. (+) DC Output (Stand-by)] and negative to [NEG1] through [NEG5] (Fig. 7, pg. 6).
5. To trigger the MOM5C from an FACP connect the signaling circuit of the FACP to terminals marked [– INPUT +]. Polarity is shown in alarm conditions. Connect the wires on opposite sides of the screw.
6. To trigger the MOM5C using a supervised dry contact connect a 2.2K resistor in series to terminals marked [TRIGGER] for an NC (Normally Closed) trigger input or connect a 2.2K resistor in parallel to terminals marked [TRIGGER] for NO (Normally Open) trigger input (Fig. 7, pg. 6).
7. Connect the auxiliary devices that are to be triggered by the MOM5 to terminals marked [Dry Output]: For Normally Open operation connect wires to the terminals marked [NO & C]. For Normally Closed operation connect wires to the terminals marked [NC & C].
   Note: This relay will energize when the MOM5C is triggered.
8. Connect the trouble reporting device to the terminals marked [Power Fail]. For Normally Open operation connect wires to the terminals marked [NO & C]. For Normally Closed operation connect wires to the terminals marked [NC & C].
   Note: This relay will switch when power is lost to the MOM5C.

Current Draw:

Input Voltage	Stand-by	Alarm
12VDC	0.024A	0.066A
24VDC	0.026A	0.074A

LED Diagnostic Table:

LED	ON	OFF
Power (Green)	Normal operating condition.	Power failure.
Trigger (Green)	Input is triggered (alarm condition).	MOM5 in stand-by (non-alarm condition).
Outputs (Red)	Output tripped due to a short circuit or ov erload condition.	Normal operation.

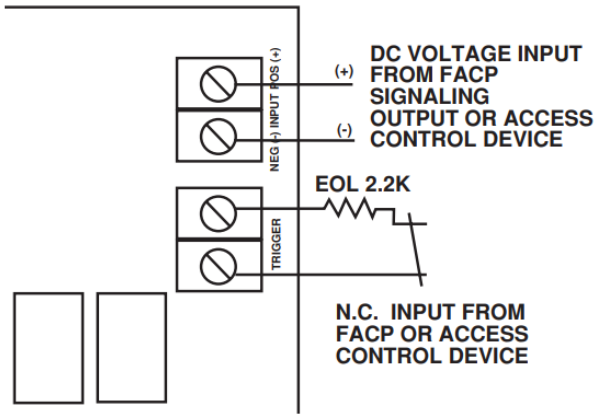
Terminal Identification:

Terminal Legend	Function/Description
— DC INPUT +	12VDC or 24VDC from the power supply.
TRIGGER	Dry normally open [NO] or normally closed [NC] supervised (2.2K EOL resistor) input tri gger. A short or open circuit will transfer power from terminals marked [POS. (+) DC OU TPUT (STAND-BY)] to terminals marked [POS (+) DC OUTPUT (ALARM)].
— INPUT +	Wet (5-30VDC) input trigger. Applying voltage to these terminals in the polarity shown wi ll transfer power from terminals marked [POS. (+) DC OUTPUT (STAND-BY)] to terminal s marked [POS. (+) DC OUTPUT (ALARM)] (e.g. fire alarm control panel indications circ uit).
NEG. 1 THROUGH NEG. 5	Supplies constant negative (—) voltage.
POS. (+) DC OUTP UT (ALARM) 1-5	Supplies positive (+) voltage when dry trigger input or fire alarm wet trigger input is appli ed.
POS. (+) DC OUTP UT (STAND-BY) 6-1 0	Supplies positive (+) voltage in normal conditions. Power is removed when dry trigger input or fire alarm wet trigger input is applied.
NC, C, NO DRY OU TPUT	When the MOM5 is triggered, the terminals marked [C and NO] will open and the termin als marked [C and NC] will close. This output is used to trigger auxiliary devices. (e.g. H VAC Shutdown, Elevator Recall etc.). Contact rating 1A @ 28VDC.
NC, C, NO POWER FAIL	Form “C” contacts used for reporting no voltage is present at [— DC INPUT +] terminals. Under normal conditions terminals marked [NO and C] are open, [NC and C] are closed. A loss of power causes terminals marked [NO and C] to close an d [NC and C] to open. Contact rating 1A © 28VDC.

Typical Application Diagrams:

Fig. 1

MOM5C module shown with wet and/or dry normally closed trigger inputs **(Non-Latching)**:



MOM5C module shown with wet and/or dry normally open trigger inputs **(Non-Latching)**:

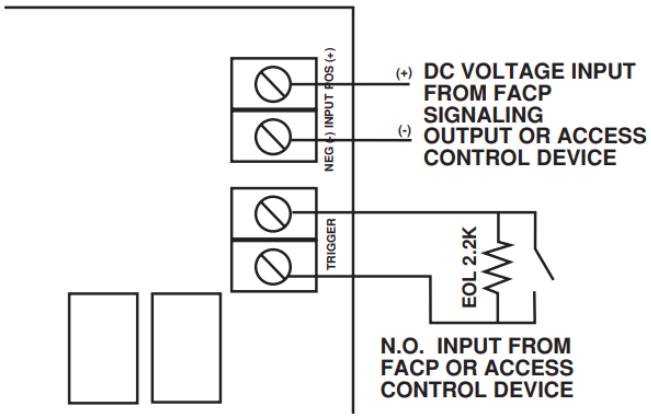


Fig. 2

Two (2) or more MOM5C modules shown with wet and/or dry normally closed trigger inputs **(Non-Latching)**:

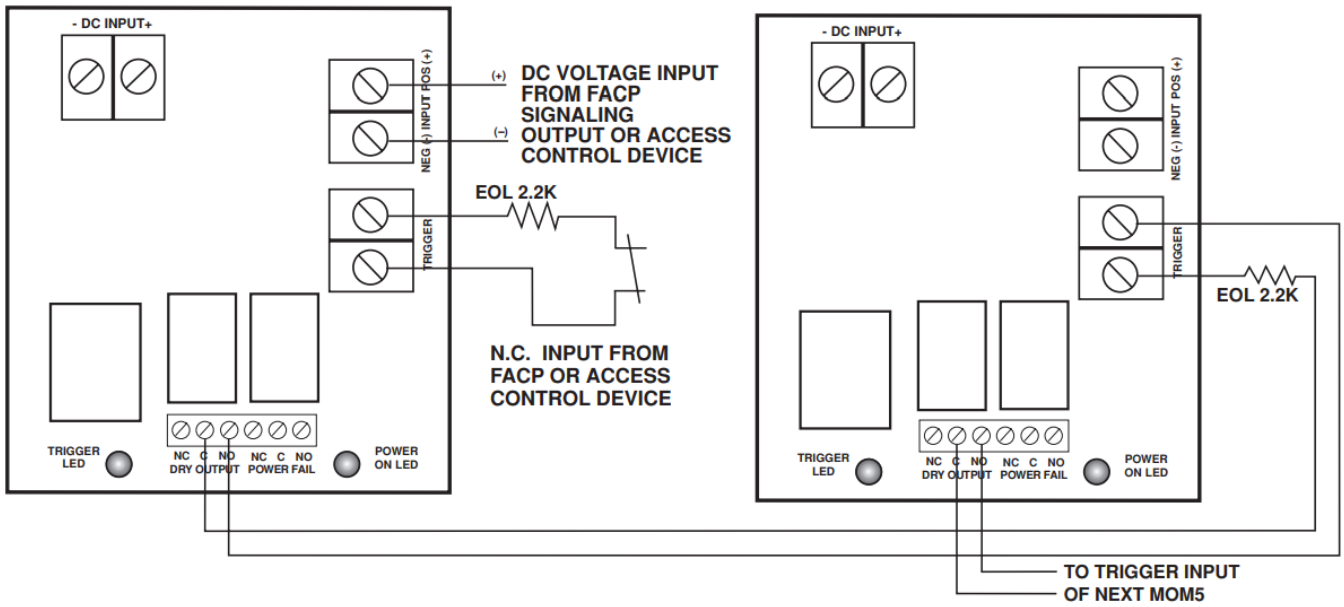
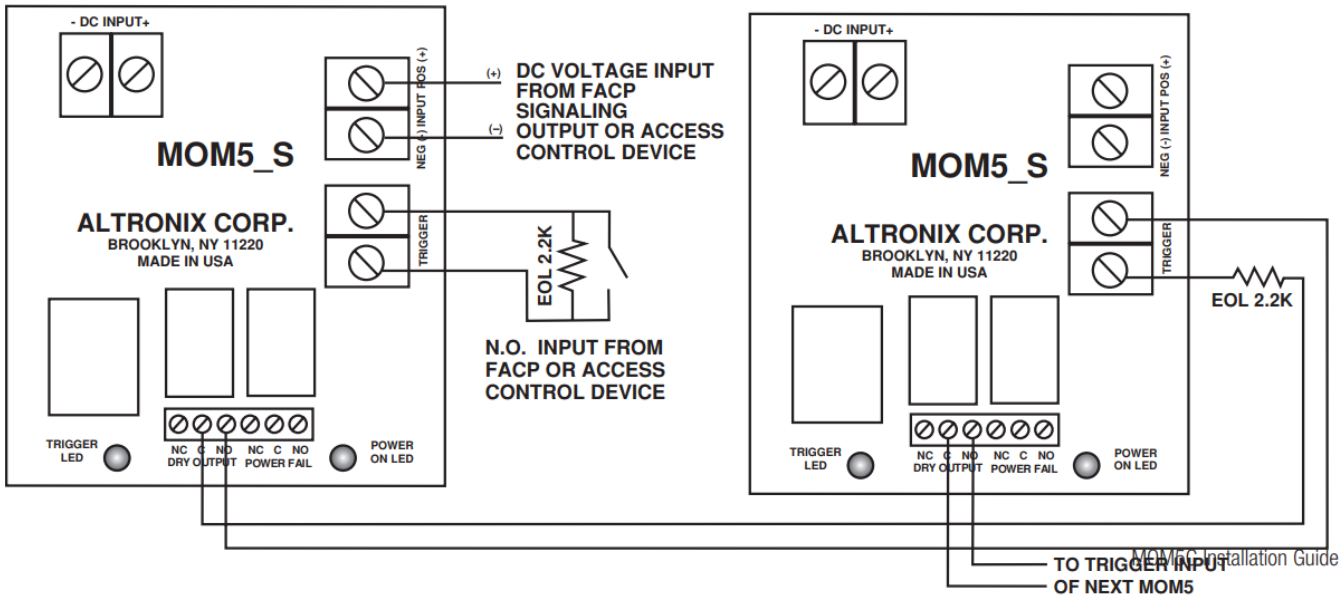


Fig. 3

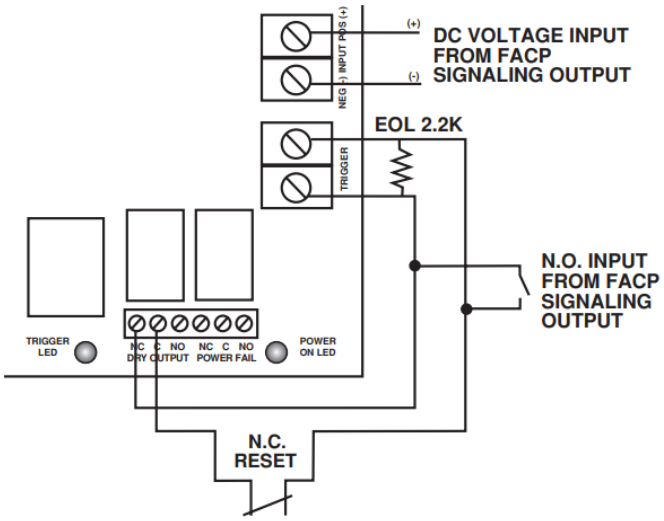
Two (2) or more MOM5C modules shown with wet and/or dry normally open trigger inputs **(Non-Latching)**:



Typical Application Diagrams (cont'd):

Fig. 4

MOM5C module shown with with wet and/or dry normally open fire alarm trigger inputs **(Latching with Manual Reset)**:



MOM5C module shown with with wet and/or dry normally closed fire alarm trigger inputs **(Latching with Manual Reset)**:

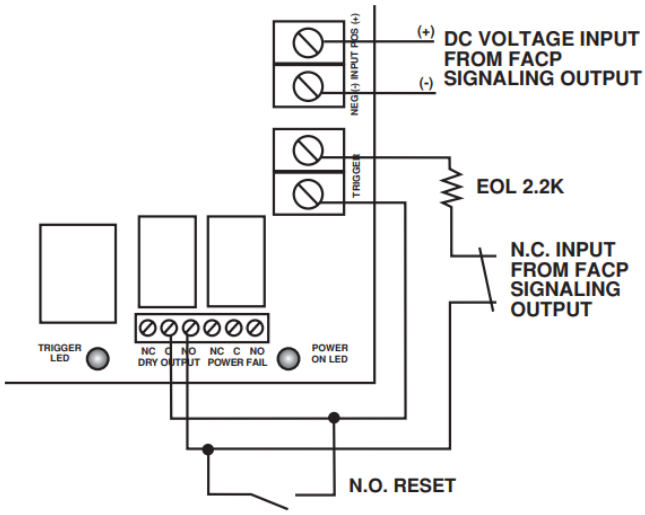


Fig. 5

Two (2) MOM5C modules shown with wet and/or dry normally closed fire alarm trigger inputs **(Latching with Manual Reset)**:

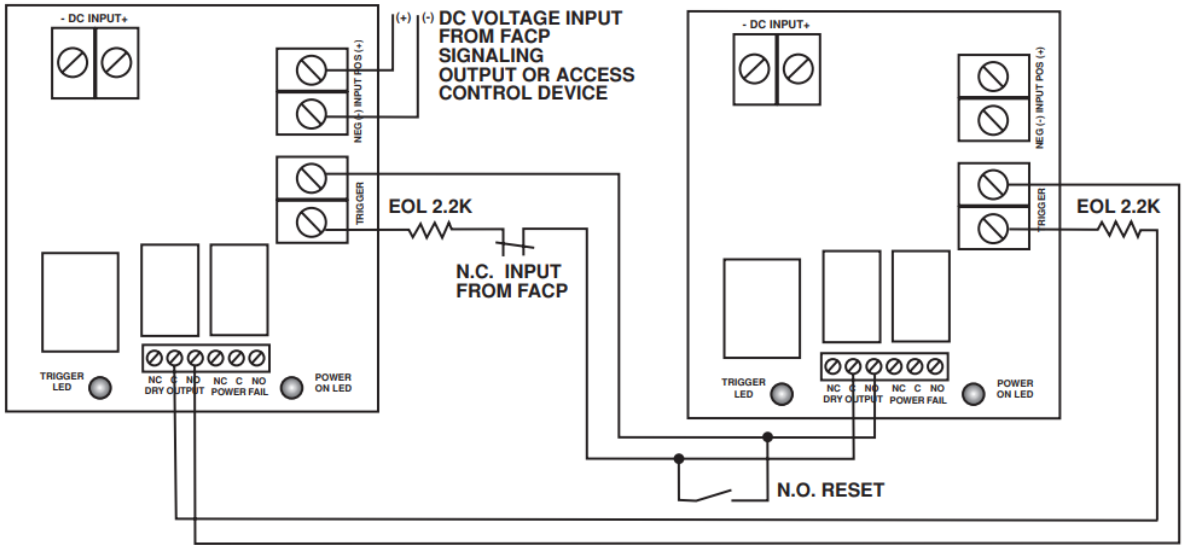


Fig. 6

Two (2) MOM5C modules shown with wet and/or dry normally open fire alarm trigger inputs **(Latching with Manual Reset)**:

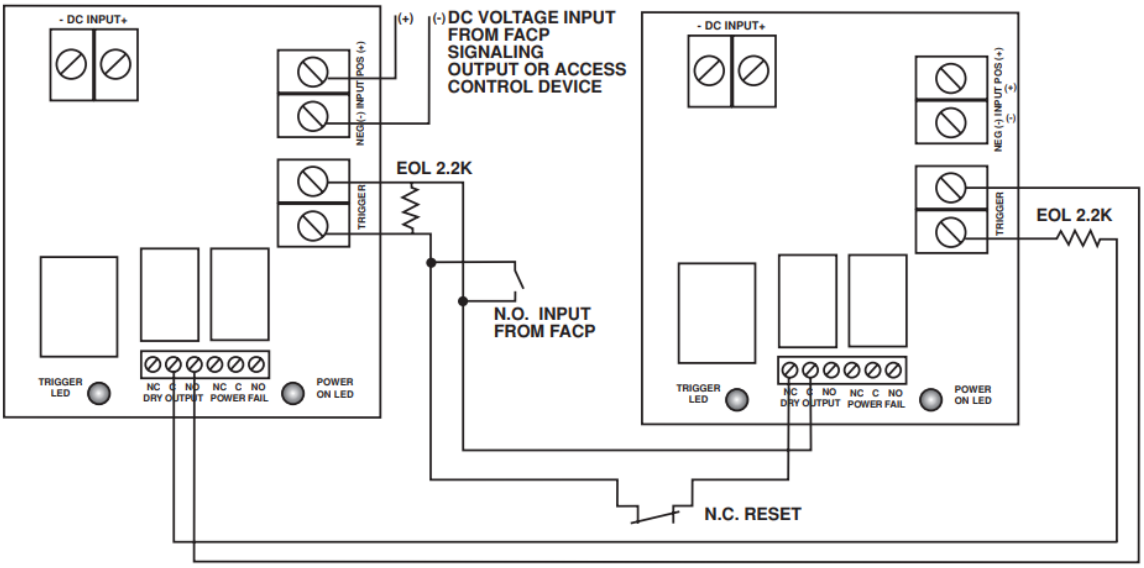
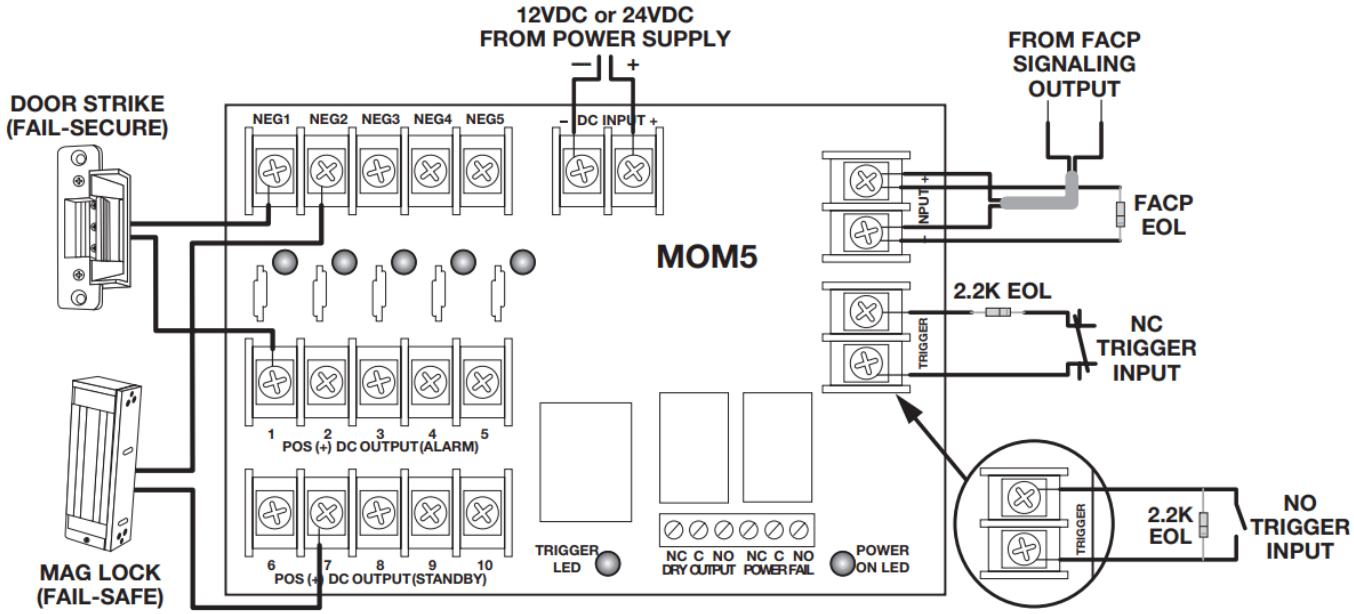
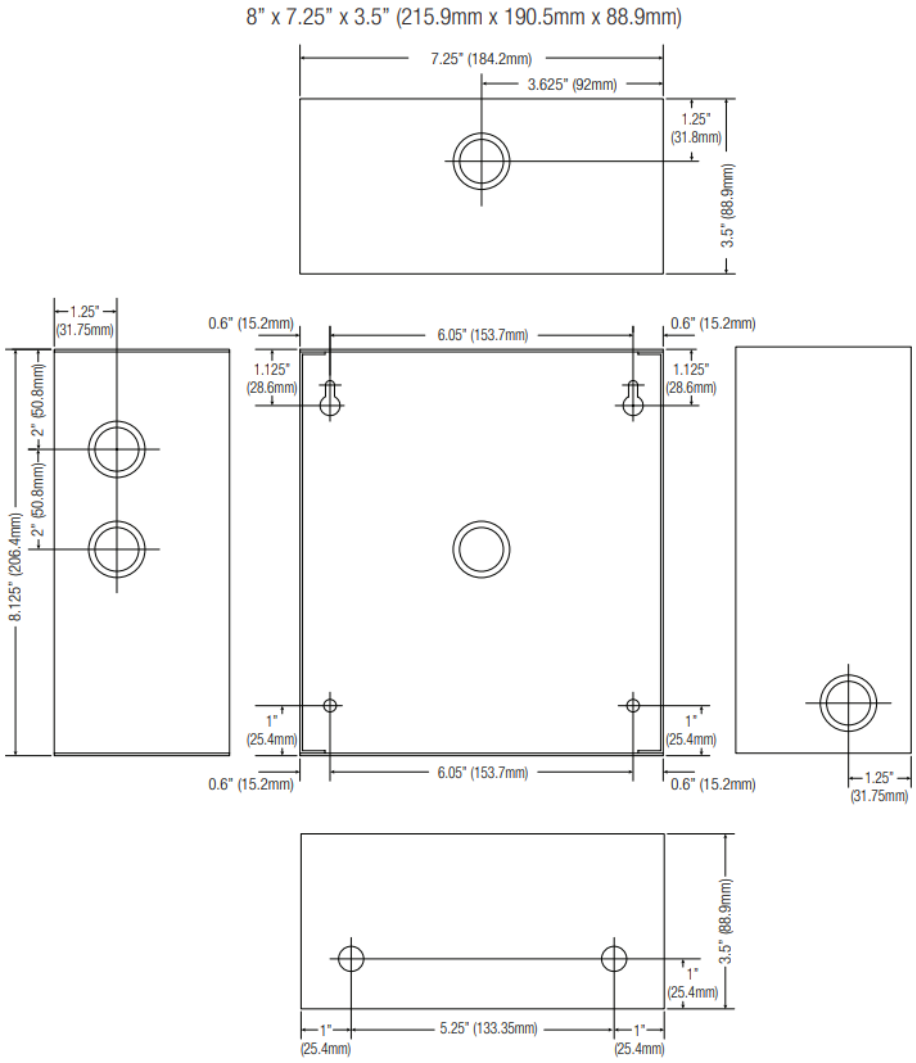


Fig. 7



Notes:

Enclosure Dimensions (H x W x D):



MEMBER

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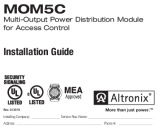
Documents / Resources

	Altronix MOM5C Outlet Access Power Distribution Module [pdf] Installation Guide MOM5C, Outlet Access Power Distribution Module, MOM5C Outlet Access Power Distribution Module, Access Power Distribution Module, Power Distribution Module, Distribution Module, Module

References

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