



PROGRESSIVE
AUTOMATIONS
Model: PA-41-4-12V24V
Voltage: 12-24V
Batch: 3308
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Call: 1-800-878-6133
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CE



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PA-41-4-12V24V

User Manual

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Have any queries? Our expert engineers are here to help!



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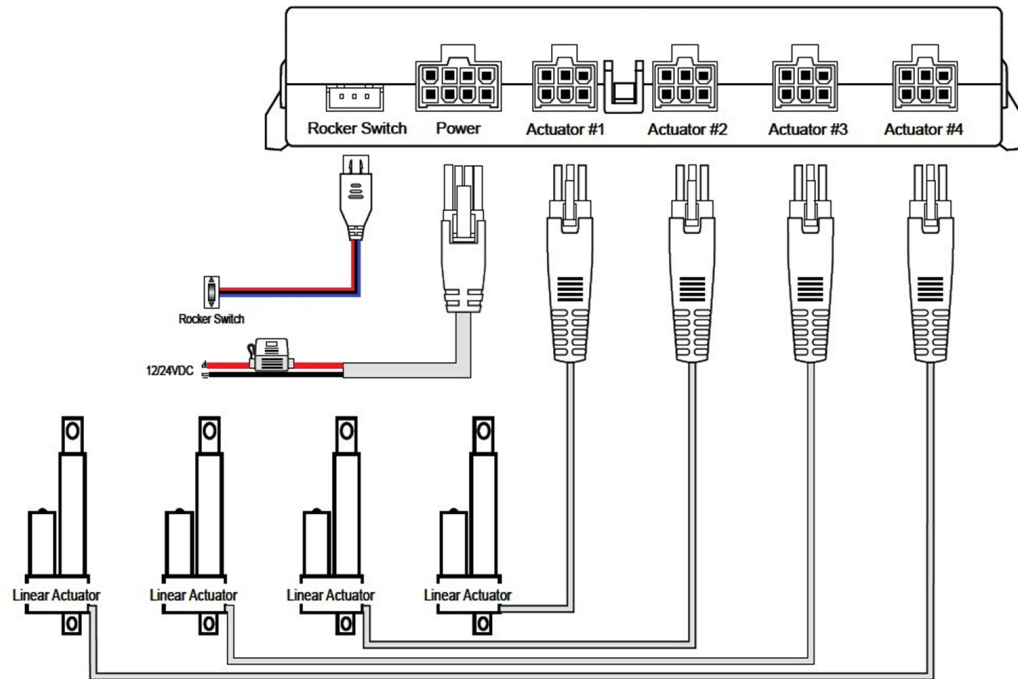


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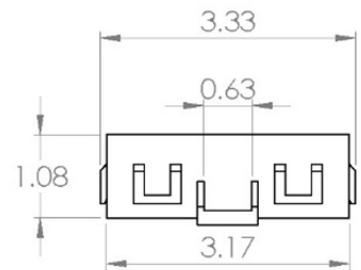
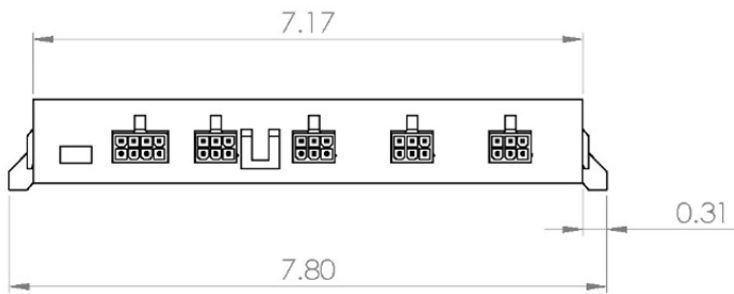
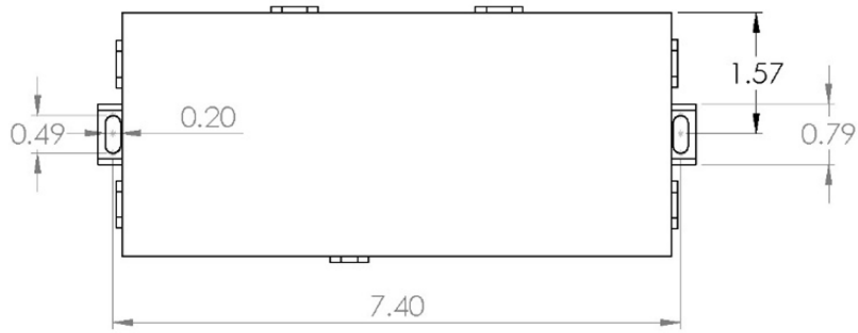
Specifications

Number of Channels	1-4 Matching Actuators
Input Voltage	12-24 VDC
Output Voltage	12-24 VDC
Max Current at 12VDC Per Channel	6.25 A
Max Current at 24VDC Per Channel	5 A
Duty Cycle	10% (2 min on, 18 min off)
Feedback Input	Hall Effect Sensor
Operational Temperature	-30°C to 60°C
Housing Color	Black
Housing Material	Plastic
Certifications	CE, FCC
Kit Includes	1 control box, 2 wireless remotes, 1 power wire harness w/ in-line 30A fuse, 1 Remote Sync Pushbutton, Wired Rocker Switch
Wireless Frequency	433.92 Mhz
Wireless Range	100 Ft
Wireless Remote Functions	Up, Down, Pause (Momentary/Non Momentary Modes)
Dimensions	7.87" x 3.35" x 1.10"

Wiring Diagram



Dimensional Drawing



Operation

FIRST-TIME SETUP

- Plug the compatible actuators into the control box ports. Do not install these actuators yet into the application.
- Attach the stripped side of the power harness to the power supply. Red (+) for positive voltage, and Black (-) for neutral. Do not plug the harness into the control box yet.
- Ensure the power supply chosen is set/rated within the voltage threshold of the control box and at the rated voltage of the actuators chosen.
- Plug the power harness into the control box and switch the power supply on. 1 beep will sound from the control box to indicate that the control box is functional.
- Initiate the Learn Mode in the “Troubleshooting/Learn Mode” section.

GENERAL OPERATIONS/FEATURES

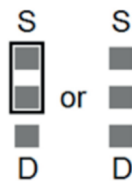
Wireless Remote

The wireless remote allows for wireless control of the control box up to 100ft away (open air). 2 movement modes are available and are outlined below.

Non-momentary Mode (Default)

In Non-Momentary Mode, pressing any of the direction buttons on the remote once will move the actuators in the corresponding direction. The actuators will not stop until any button on the remote is pressed again.

To set the control box for this mode, open the casing of the control box and expose the circuit board by prying at the securing tabs. Check the S D Jumper Block and place the jumper according to the diagram below.



MOMENTARY MODE

In Momentary Mode, holding down any of the direction buttons on the remote will move the actuators in the corresponding direction. The actuators will stop as soon as the button on the remote is released.

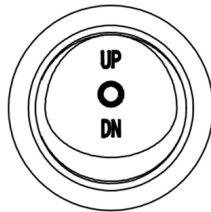
To set the control box for this mode, open the casing of the control box and expose the circuit board by prying at the securing tabs. Check the S D Jumper Block and place the jumper according to the diagram below.



Operation

WIRED ROCKER

If using the wired rocker, press and hold either the up or down key of the desired direction of travel to move the actuators. Release the rocker when the desired position of the actuators is reached.



TROUBLESHOOTING/LEARN MODE

Reset Mode

Use the reset mode to clear failure modes after they have been identified and handled. The reset mode will retract all actuators, so they align after a scenario occurs which forces them to misalign. Only use this reset function if the below happens:

1. All actuators have stopped on their own and the control box is beeping continuously.
2. The actuators have become misaligned in any way from each other without the intervention of the control box. For example, one actuator retracts slightly over a long period of time without action from the control box.

Warning: It is best if the actuators are reset while completely uninstalled from the application. During reset, the actuators are not operated synchronously.

The steps to initiate the reset procedure are described below:

1. Disconnect power to the control box.
2. Install the included rocker switch if it was not already installed before.
3. **This step will retract the actuators.** Hold down the Up direction of the rocker. While holding the rocker direction, plug back the power to the control box.
4. Allow the actuators to fully retract.
If any actuator is not moving and all connections are verified, contact Progressive Automations directly for further troubleshooting.
5. Once the actuators have fully retracted, a single beep should be heard from the control box to confirm the reset was successful. Resume normal use of the actuators.

If no single beep was heard, disconnect the power from the control box and contact Progressive Automations directly for further troubleshooting.

Operation

Learn Mode

This mode is for users who want to use their control box with a new set of compatible actuators. Only use this mode if the following apply:

1. If a new set of actuators is being installed with this control box.
2. If any single actuator plugged into the control box for any reason has been replaced.

Warning: In the Learn Mode, make sure it is being performed with the actuators completely disconnected from the application and allow for enough room for the actuators to fully extend and retract. The actuators will move when in this mode and the motion is not synchronous.

1. Disconnect the power to the control box.
2. Plug in the new actuators and the wired rocker switch supplied.
3. **This step will fully extend and retract the actuators.** Hold the Down direction on the rocker and plug in the power. Release the rocker after the actuators start moving.
4. Allow the actuators to fully retract, extend, and then retract again. Ensure that all actuators are moving. If any actuator is not moving and all connections are verified, contact Progressive Automations directly for further troubleshooting.
5. Once the procedure is complete, one beep will sound from the control box. If the control box constantly beeps after the procedure completes, reseal all connections, and ensure there is nothing preventing contact between the actuator plug and the control box. Perform the steps again. If all connections are verified and the control box still continuously beeps, contact Progressive Automations directly for further troubleshooting.
6. If not needed, unplug the rocker switch, and store it in a safe place for future use.