EZ-Door
Automatic Poultry Door

Operating Instructions

#70541-P1
#540265-P1S

PREMIER 1

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Operation Instructions

1. General

These operating instructions cover use and safety information. Please read carefully before putting the device into operation. Please keep these operating instructions in a safe place for later use!

2. Correct Use

The automatic chicken door uses a rope pull to open and close the integrated sliding door on poultry and chicken coops. It is not intended for use with any other type of animal. The slider automatically opens and closes at a specified level of brightness. The manufacturer's warranty and liabilities are invalidated if the device is used incorrectly or tampered with, especially if an unapproved slider is used. Use slider provided only.

3. Safety Instructions

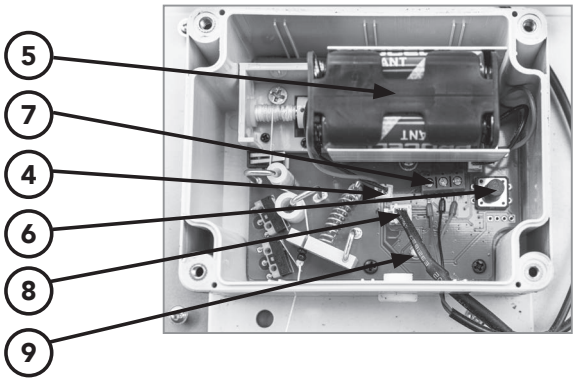
CAUTION!

Risk of physical injury and material damage if used incorrectly!

- Ensure that no animals or children are able to enter the hazardous zone of moving parts.
- The weight of the slider must be adjusted.

4. Package Includes:

- control unit
- light sensor
- batteries (4x AA)
- external switch
- installation accessories
- operating instructions



5. Setup Of The Device

The device consists of:

1) Electronics Unit
2) Pull Cord for door
3) Light Sensor
4) Battery Connection
5) Battery Holder
6) Set Button for light sensor
7) Connecting Terminals for external buttons
8) Light Sensor Connection
9) Indicator LED
10) External Switch

Installation

6. Installation

6.1 Preparations

Plan out the installation and lay out all of the components.

6.2 Suitable Installation Site and Installation Conditions

CAUTION!

Risk of physical injury and material damage if used incorrectly!

- Do not manually extend the pull cord.
- The impact of force from the pull cord can cause injury to humans and animals.
- Incorrect setup can create hazardous zones for humans or animals.
- For the automatic chicken door, find an installation site with a level and stable base. Be aware that when the slider is opened, a higher load is exerted on the device than its own weight alone. The installation site must be protected from the ingress of rain.

The electronics unit must be installed in an upright position with the cord outlet on the underside.

6.3 Attachment

Use the included mounting screws to attach the chicken door to the coop wall. Then ensure that the following requirements are met:

- The guide rails of the door are correctly aligned and mounted, and the door reliably closes the opening of the coop.
- The gap between door and coop wall does not exceed 5 mm (0.19685") throughout the path travelled by the slider during opening. When the door is closed, the coop's opening is closed at the top. There would otherwise be a risk that body parts are crushed when the door is raised.

7. Bringing Into Operation

CAUTION!

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- Replace the battery at regular intervals as there is a risk that the battery may leak. If leakage occurs, spent batteries and the device itself should be properly disposed without delay.
- Insert the battery only after all steps of the installation have been completed (including insertion of the light sensor).

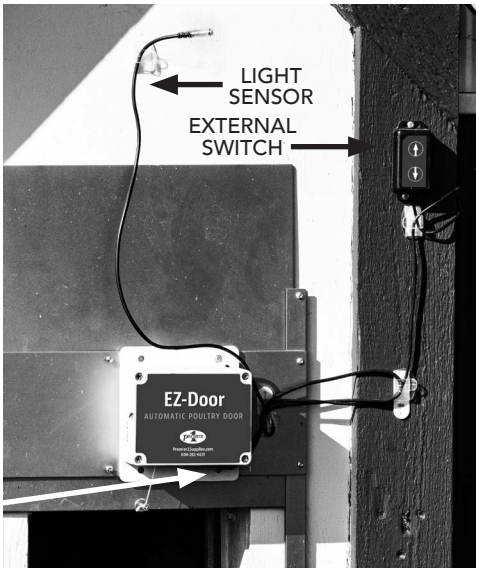
To provide the device with the energy required, place batteries (4 x AA) in the battery holder. Insert the battery holder, and use the battery connector to connect it to the circuit board. Please only use batteries with a voltage of 1.5 V. Be aware that rechargeable batteries generally have a lower voltage, causing the control to report them as being empty. Empty batteries are shown by the indicator LED flashing 6 times.

To ensure that the system is operating smoothly, open and close the door a few times by manual shading and illuminating the light sensor. You can now make the relevant settings, as described below.

8. Operation

8.1 Using The Light Sensor

To set automatic opening and closing dependent on the ambient brightness, insert the light sensor plug through the base of the housing and connect to the circuit board light sensor connection receptacle ***(see diagram to right)***.



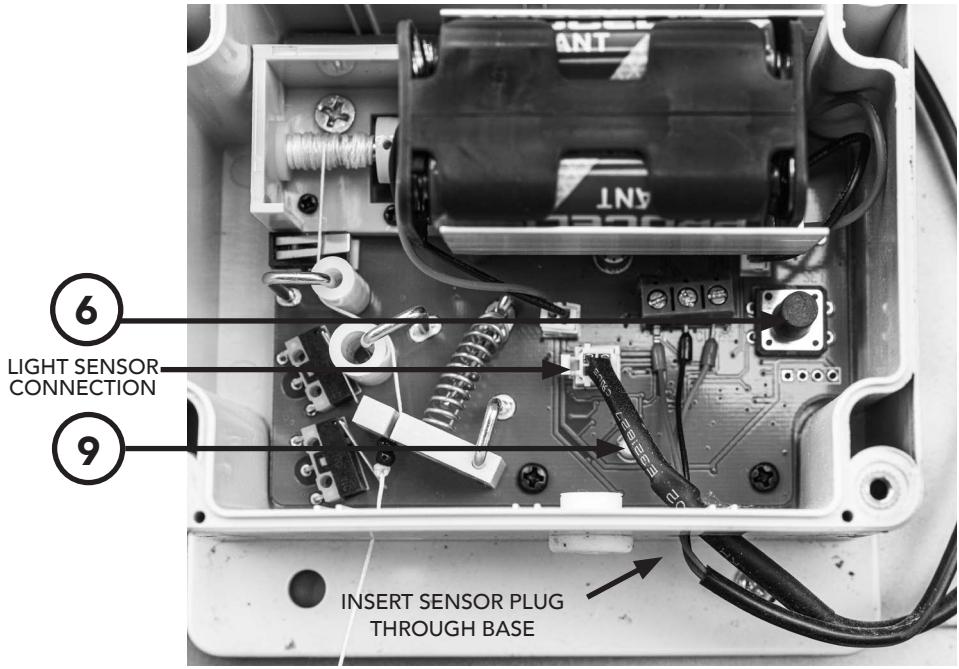
Ensure that the sensor is able to detect daylight. The sensor must not be influenced by other sources of light (e.g. artificial light from a street lamp or from a house window). Do not position the sensor on roadways where light from the headlights of passing cars may influence the sensor. Please note that approx. one minute may elapse before the light sensor responds to a change in brightness. This prevents accidental opening of the door in the event of lightning. The control recognizes when no light sensor is attached and indicates this by making the indicator LED flash 10 x ***(#9 see diagram below)***.

The door opens and closes at the pre-set level of brightness.

You can adjust the sensor's brightness threshold using the adjustment button in the device ***(#6 see diagram below)***. You must be at the contoller at the time of the desired level of brightness to reset the opening or closing level.

When the adjustment button is pressed for approx. 3 seconds, the controller records the current brightness level, and henceforth uses the new brightness setting to trigger opening and closing of the door.

The LED flashes quickly 3 times to confirm that the new brightness level has been set successfully.
The door should then close or open immediately.

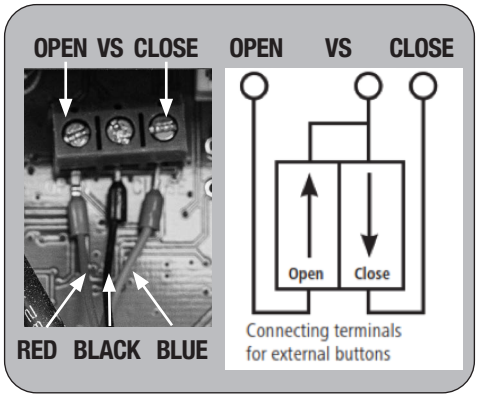


8.2 External Button Operation:

The controller can be operated using the external sensor. For this, position the sensor in a location of your choice and connect it to the device via the terminals provided. Note the wire colors should go in the order of red, black, blue ***(see diagram at right)***.

If the door was opened manually, it remains open, and closes again in the evening.

If the door was closed manually, it remains closed until the next morning and then opens automatically agian.



8.3 Switching The Device Off

To switch off the device, disconnect the connecting cable from the socket and remove the batteries.

9. Cleaning / Maintenance

CAUTION!

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- Remove the batteries before starting the cleaning tasks.
  Check the easy running of the moving door at all times. Clean the guide rails and use lubricant if necessary. Remove dirt and any objects from the door's closing area in order to protect the motor and avoid transporting dirt via the cord into the inside of the electronics unit. Regularly check the condition of the cord for wear and replace it in good time. Use our replacement cord to do this (ref.no. 70552).

10. Maintenance and Repair

The device does not require maintenance, but should be thoroughly cleaned at regular intervals. In the event of a fault, the device must be taken out of use immediately. If a repair is required, please contact a qualified electrician or send the device for repair to **PREMIER 1 SUPPLIES**. Only use original spare parts.

The controller recognizes when the battery charge is too low. The indicator LED flashes 6 X when the battery level is too low. The controller closes the door in the evening as usual, and keeps it closed in the morning. The batteries must be changed in order that the door opens and closes automatically.

11. Technical Data

Batteries: 4 x type AA
Min. door weight: 1 lb 2 oz
Max. door weight: 5.5 lbs
External buttons: A normal Up & Down contact
Device protection class: III
Device protection type: IP32

12. Replacement Parts

Item #540262 External Switch
Item #705520 Spare String with Bead
Item #705540 Light Sensor
Item #705545 Battery Pack Holder
Item #705580 Extension Cord for Light Sensor

Replacement parts must be ordered separately.

Troubleshooting

13. Error and Possible Solutions

The current status of the control can be determined from the indicator LED.
The indicator LED is located on the PCB inside the housing ***(see diagram #9 p. 5)***

Indicator LED flash sequence:

1 x..... Automatic mode, door closed
2 x..... Automatic mode, door open
3 x ..... Manual mode, door closed
4 x ..... Manual mode, door open
6 x ..... Battery is too weak (battery change required!)
10 x..... Light sensor is not connected
3 x (fast)..... New light sensor value set successfully

Error Pattern	Possible Cause	Solution
Door does not open and close depending on the light sensor	Light sensor is not set properly	Set the threshold value for the light sensor by pressing the setting button in the casing back in (see section 8.1 on p. 6)
	Automatic mode is not activated, because the door was actuated through the external sensor.	In the next day cycle, the controller returns automatically to automatic mode. The indicator LED flashes in automatic mode 1 x (door closed) or 2 x (door open).
Door does not move down	Too little weight on the rope, because the door is jammed and does not therefore move down	Use lubrication
Door does not fully move up and always remains stationary at the same point, or door does not fully move down and always remains stationary at the same point	Door is obstructed, making it difficult to move (for example: Dirt in the guide rail)	Door must be smooth-running. • remove dirt • align guide rails • use lubrication
The door closes in an evening, but does not open in a morning.	Batteries are too weak (indicator LED flashes 6 x) or their voltage is too low.	Replace the batteries with full 1.5 V batteries.

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