

Phantom[®] Electronic Curtain Motor

Lukes Engineering Co. Ltd 2010



The Phantom[®] curtain motor is an electrically operated, automatic curtain opening and closing unit designed to operate on any shape or length of heavy duty continuous corded track (3mm diameter cord) providing the weight of pull on the cord is not greater than 8kg. The unit has a pressure control setting to allow for varying weights of curtains and an electronic distance control to allow the curtains to be opened to a set distance, thus preventing bunching.

The Phantom[®] curtain motor can be mounted either way round on the wall to create a left or right hand unit. This makes fitting easier as the cords must enter the top slot in line with the drive pulley and not chafe the sides of the housing. It is recommended that the unit be situated low down so the curtains can be opened and closed by hand in case of power failure. **If power failure does occur, remove the power supply before unscrewing the cover. Un-hook the cord from the drive pulley then operate manually.**

Voltage: 220/240V 50Hz 2A

Motor: 12V DC

Pull: 1-8kg

Speed: 11cm/sec (approximately)

Size: 153mm high x 67mm deep x 132mm

Finish: White powder coated steel

Weight: 1.7kg

Switching: Momentary pulsed 12V DC

Switching options for the Phantom[®] curtain motor:

Remote push button – with 2m of cable

Timer – opens and closes your curtains at the times you set, ideal for when you are out or on holiday. The unit can still be operated normally by a push button or radio control, so for example, if the sun is out during the day it is possible to close the curtains. When they are then due to close in the evening, the unit will sense that they are closed and leave them closed. If left, the curtains will then open in the morning at the set time. A table lamp can also be connected to the timer so that when the curtains close the light comes on for a set time period after which the light will go off.

Radio control – operate your curtains from the comfort of your own chair.

Timer-Light Sensor – automatic operation at dusk and dawn or,
closes the curtains when it gets dark and opens them again in the morning at a set time.

* These options or a combination of them can be added at any time.

Fitting Instructions

- 1) Make sure the curtains are corded with endless cord long enough to reach the point where you wish to fix the motor, and that they operate freely. It is possible to shorten the length of the cord on the master runner on the track. The cord must be a minimum of 3mm in diameter.
- 2) Ensure the power to the motor is switched off and then remove the top cover to reveal the drive cord rubbers. **On no account operate the motor with the cover removed!** It is possible to mount the curtain motor either way round on the wall depending on what side you require the slot for the cord to be. Check the cords enter the top slot in line with the drive pulley and do not chafe the sides of the housing. There are cover fixing holes on both sides of the unit so whichever way round it is screwed to the wall, the cover must be attached before the unit is used.
- 3) Open the curtains part way then loop the cord around the pulley ensuring either the open or close pull side of the cord is closest to the corresponding sticker on the chassis. The weight of the motor hanging from the cord gives the correct tension. Mark the location for the fixing screws at the bottom of the two slots on the back of the curtain motor. Remove the motor to drill the holes using a 6mm masonry drill. Fix the motor in place using the wall plugs, screws and large washers provided.
- 4) Once in position attach the cover with the two screws provided. Should the cord stretch over time disconnect the unit from the mains supply then remove the top cover. Slacken the two fixing screws and slide the unit down the wall, then re-tighten both screws. Replace the cover.
- 5) Plug the mains cable into the base of the curtain motor and the other end into a power socket. Plug your switching option e.g. push-button, radio, timer or light sensor into the correct socket on the base of the unit. Operate the unit several times using your switching option, **(NOT THE RED SET BUTTON ON THE TOP OF THE CURTAIN MOTOR)**. If the curtains do not fully open or close turn the pressure adjustment on the top of the curtain motor clockwise (note: increase the pressure a small amount at a time and test). The pressure should be adjusted to the **minimum** required to fully open and close the curtains. **Please note**, it may be necessary to adjust the pressure from time to time, but do not set it too high as this will reduce the life of the cord rubbers. The track should be lubricated with a silicon spray regularly.
- 6) Close the curtains using your switching option e.g. push-button, radio, timer or light sensor. **DO NOT USE THE RED SET BUTTON ON THE TOP OF THE CURTAIN MOTOR FOR THIS**. When the curtains meet in the middle, they will automatically switch off and do a small reverse to release the cord tension.
- 7) From this position **press the RED SET BUTTON on the top of the curtain motor** to start opening the curtains. Once they are in the required open position, **press the RED SET BUTTON again to stop them**. This has now set the opening distance so the curtains will always open to this point.
- 8) Now the curtain motor is set up, operate it using your switching option (available options described above). **ONCE SET UP, DO NOT OPERATE BY PRESSING THE RED SET BUTTON ON THE TOP OF THE CURTAIN MOTOR, AS THIS WILL ALTER THE OPENING DISTANCE!**
- 9) Should the opening distance need to be altered, this can be done at any time by following the above instructions from point 6.

Please note that if the curtains are only closed part way then stopped, when operated again the motor will open the curtains and pull them back tightly before doing a reverse to release the cord tension. This is due to the opening distance being set from when the curtains are fully closed. To resolve this, operate the curtain motor again and allow the curtains to fully close. From this closed position operate the motor and the curtains will open to the set point. **DO NOT USE THE SET BUTTON FOR THIS OPERATION.**

Built-in Radio Controlled Curtain Motor

If you have a built-in radio controlled Curtain Motor it is possible to alter the code of the transmitters. Open the transmitter and change the dill switch code by moving some of the small switches up or down. To re-code the Curtain Motor, whilst switched on, press and **HOLD** the **Yellow** button on the base of the Curtain Motor. Keeping this button depressed, also press the blue button on the transmitter. The Curtain Motor will then operate. From this point on it will remember the code, even if it is switched off!

Please note that if additional transmitters are required for use with one Curtain Motor, all the transmitters must be on the same code.

Trouble Shooting

Q: The curtains are not fully opening, they just suddenly stop prematurely...

A: The set opening distance has been set incorrectly. Refer back to point 6 on the fitting instructions above to reset.

Q: The curtains are not fully closing/opening, they stop prematurely then do a small reverse...

A: The pressure is too low and should be increased by turning the pressure adjustment on the front of the curtain motor clockwise. (Note: you will only need to move it a very small amount to fix the problem).

Q: You can hear the curtain motor is running, but the curtains are not moving properly or not at all...

A1: Check the diameter of cord on your curtain track. The minimum required is 3mm, anything less will result in the cord slipping in the pulley wheel. Please note that over time the cord can become stretched thus reducing the diameter. If this is the case the curtains will need to be re-corded.

A2: Cord rubbers on the pulley wheel may have become worn over time and are not gripping the cord properly. These can be purchased upon request.