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Laser Business Systems

Curtain Controller

Description

The unit is designed to offer remote control for the SilentGliss Autoglide dawn and dusk (*previously* Swish Autoglide K400) curtain system using X-10 commands.

Any compatible X-10 transmitter may be used to send commands to the device.

- Address set electronically.
- Pass through socket allows retention of local control switch.
- Status indicator to show unit operation and when receiving X-10 signals and commands.
- Optically isolated connections to motor and local switch.

A push button is fitted to the side of the unit. This is used to enter the address setting mode, and to restore the unit to factory settings.

A status light is fitted beside the push button. This indicates operation of the unit by flashing when the unit is switched on, and whenever the unit is receiving X-10 transmissions.

Installation

You should have already installed the curtain track and motor to be controlled.

Install the controller in a convenient position to the curtains, the case has suitable lugs for attaching to a wall or suchlike.

Connections

Refer to figure 1 below.

Curtain motor connection.

Ensure the unit is disconnected from the mains before opening the case.

To access the sockets for the curtain connections the lid of the case needs to be removed. 4 screws hold this in place. When removing the lid it is necessary to lift the side opposite the push button first. This is to allow the push button and status light to clear the side of the casing prior to lifting the lid fully. Refitting is the reverse of the removal sequence.

The Auto Gliss motor is connected to either of the RJ11 sockets on the lower edge of the circuit board using the cable provided. Two sockets are provided to allow the existing toggle switch to also be connected to the motor via this unit. This allows retention of the local control feature. You may plug the motor and local switch connectors into either socket.

These cables should be routed through the hole in the case and secured using the strain relief grommet provided, figure 2 shows how to assemble this.

The cable from the unit to the curtain motor is plugged into the motor in the RJ11 socket on the left side of the motor base, (the one furthest from the motor power socket).

The cable used should be of the 'straight-through' type, that is pin 1 to pin 1, pin 2 to pin2 etc.

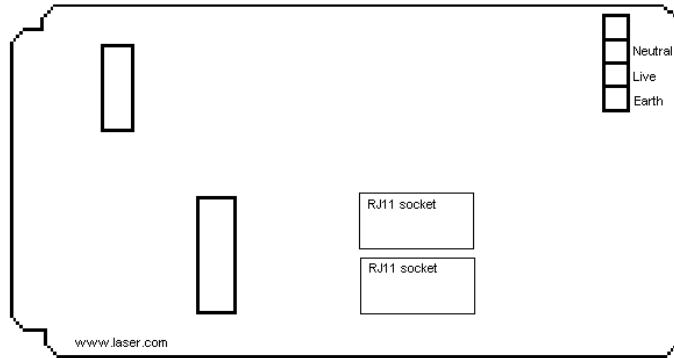


Figure 1

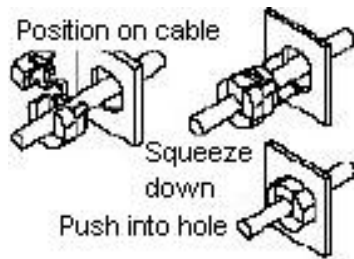


Figure 2

Power

The unit is provided with suitable mains cable and plug fitted.

The mains plug should have a 1 amp fuse fitted. The mains lead attached to the unit simply needs to be plugged into the nearest available outlet.

Switching on

When the unit is switched on the status light on the side will flash to indicate the unit is working. When first installed the light will flash three times, indicating the unit does not yet have an X-10 address set and has taken the default address 'A1'. After this light is extinguished, the unit will be in operation and ready to receive X-10 commands.

You may operate the unit in this state using the default address 'A1'.

Default settings

The unit is supplied with the following settings as the default:

Address	A1
Status light	Enabled (light will flash whenever X-10 signals are received)

These can be changed during the address setting mode described below.

Setting the unit address

The X-10 address for the unit is set electronically by sending an address using any X-10 compatible transmitter. During this sequence you may also stop the status light from flashing every time the unit sees X-10 signals.

- 1) Press and hold push button for 4 seconds.
*The light will illuminate immediately then blink once after 4 seconds have elapsed.
If the push button is not held for 4 seconds the unit will revert to normal operation immediately.*
- 2) Release the push button.
*Light will remain illuminated.
Unit is now ready to accept an X-10 address.*
- 3) Within 30 seconds send the desired address using any X-10 compatible transmitter
*light will blink once to indicate when (if) it receives an address.
If an address is not sent within 30 seconds the unit will revert to normal operation WITHOUT setting a new address.*
- 4) Optional:
Disable the status light by sending a dim command within a further 30 seconds
OR: Enable the status light by sending a Bright command
*The status light will blink 3 times and the unit will exit the address setting mode and return to normal operation.
If neither a DIM nor BRIGHT command is sent within 30 seconds the unit will revert to normal operation without altering the light enable/disable setting.*

Step 4 is optional, if you do not wish to perform this step then simply stop at step 3. The unit will return to normal operation 30 seconds after step 3 was completed.

Notes: if you have a transmitter that cannot send an address on its own, i.e. an rf palmpad and TM12, or a mini-timer, then just send an ON or OFF with the address, the light will flash twice to show it also saw a command with the address. This will have no effect on the address set for the unit.

Normal operation

Functions

In use the device responds to the following X-10 commands addressed to the unit:

- ON Closes the curtains.
If the curtains are currently travelling in the open direction, they are stopped and then begin travelling to the closed position.
- OFF Opens the curtains.
If the curtains are currently travelling in the close direction, they are stopped and then begin travelling to the open position
- DIM Moves the curtains in the close direction approximately 15cm.
The exact distance travelled depends on a variety of factors, such as weight of curtains.
If the curtains are currently moving in the opposite direction they will simply stop.
- BRIGHT Moves the curtains in the open direction approximately 15cm.
The exact distance travelled depends on a variety of factors, such as weight of curtains.
If the curtains are currently moving in the opposite direction they will simply stop.

Status light

This is used to indicate the unit is operating by flashing when the unit is switched on, and when receiving X-10 transmissions.

When the unit is switched on the light will flash twice (3 times if the unit does not have an address set).

When the unit detects X-10 signals the light flashes quickly. If the unit detects a command it can act upon, the status light is kept illuminated for 1 second. This may be disabled during the address setting sequence described above. If this light is set to disabled it will not flash during reception of X-10 signals and commands, all other functions of the status light will remain working (i.e. during address setting mode).

Reset to factory settings

The unit may be reset to factory settings, this will erase all user defined settings i.e. address and status light enable/disable. This will leave the unit set to:

- A1 Status light enabled

To reset unit to factory defaults, disconnect the unit from the mains power and leave it for 30 seconds or more.

Before switching the unit on, press and hold the push button on the side of the unit.

Apply power to the unit and keep the button pressed for a further 3 seconds.

The status light will illuminate as the power is applied, and will blink once after 3 seconds.

Release the push button and the unit will restore the factory settings.

After this the unit will begin operating as described in the 'switching on' section above.