

SHUTTER SWITCH SW10

Qualities



IH4050 - © SW10

KEY Features:

- * Replaces any normal wall switch for the shutter, curtain or sunshade motor control and responds to X-10 signals.
- * Works with any X-10 controller and can also be used as an ordinary switch.

Make your house look "lived-in" when you're away with presence simulation of your shutters or curtains.
When going out: one button control of all shutters.

Applications

The X-10 wall mounted motor drive switch (SW10) is a receiver module that is controlled by any X-10 controller. It can be used for curtains, sun shades and shutters, but also like an ordinary switch. The most common application is shutter control.

The unit controls the position of a shutter or blind either in response to X-10 signals received on the powerline or manually from push buttons on the front face of the unit.

If the serial control message is in "standard" X-10 format, the unit can be :

- fully opened in response to "unit code" "ON";
- fully closed in response to "unit code" "OFF";
- adjust to every position in response to "unit code" "DIM" for down or "unit code" "BRIGHT" for up.

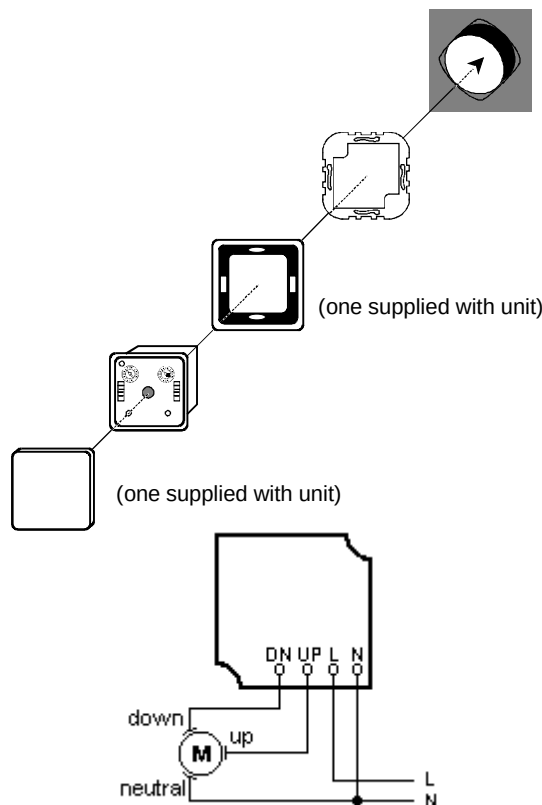
If the message is in "professional" X-10 format, then intermediate openings are also possible.

Technical information

Supply voltage:	230V + 10% -15% 50Hz
Power consumption:	< 1 W
Supply current:	<= 20 mA capacitive
Making capacity:	6 A - 250 VZC (motors)
EMC emission:	according to EN 50081-1
EMC immunity:	according to EN 50082-1
Electrical safety:	according to EN 60950 and EN 60065
Signal sensitivity:	50 mVpp min. at 120 kHz
Input impedance:	> = 180 Ohm (L-N) at 120 kHz
Connections:	screw type terminals for phase, neutral, motor forward and motor reverse.
Ambient temperature:	- 10° C to + 50°C (operation) / -20° C to + 70° C (storage)

INSTALLATION

Switch off appropriate mains fuse !



- Take off switch cover, remove both screws and take off the mounting plate.

- Mount the mounting plate onto the flush mounting box with four countersunk screws. Position the plastic decor frame ; supplied by others.

- Connect cables: phase to L, neutral to N, motor up to up, motor down to DN and motor neutral to N.

- When connected, position shutter switch on the mounting plate and reinsert both screws.

Now the control electronics has to be calibrated in order to adjust to the time the shutter motors needs from « fully closed » to « fully open » :

- Switch on mains fuse.
- With the aid of a screwdriver, adjust both rotary switches to Y(calibration).
- Put the switch cover back on and use the switch to drive the shutter all the way up..
- Now press the push-button ↓ until the shutter is completely closed.
- Release the button as soon as the shutter is closed. The electronics measure the elapsed time and stores it internally so that the switch always knows the position of the shutter.
- Now the same procedure for the opposite direction : press and hold push-button ↑ until the shutter is fully open, then release the button.
- Take the switch cover off again.
- Set the rotary code switches on the front side to the desired device address (e.g. E13) with a screwdriver, and note this address down in a list.
- Put the switch cover back on

The calibration is now completed. The internal electronics have measured and stored the time for raising and lowering the shutter. These values will not be lost even in case of mains failure.

When the unit receives a message, it will operate as follows with X-10:

- | | |
|---------------------------|--|
| * "OFF" message : | - shutter fully closed. |
| * "ON" message : | - shutter fully open. |
| * DIM or BRIGHT message : | - adjust shutter to preferred position |

Important notice:

As with the other receiver modules, the device address can be changed easily at any time without disconnecting any cables. After the installation of the Marmitek X-10 controllers, all receiver modules have first to be checked for correct function and address !