

# INSTALLATION *guide*



## inteo *Light sensor*

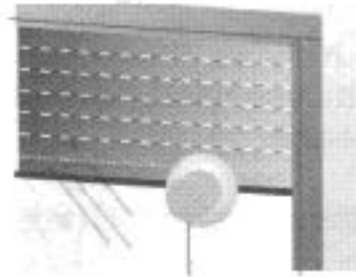
Together with the SOMFY Chronis Uno L, Chronis IB L and Chronis RTS L, the SOMFY brightness sensor can be used to operate your roller shutters and venetian blinds in relation to the amount of light. These SOMFY control units have an integrated automatic solar control unit (L = light control) that automatically creates shade if the sunshine is too strong.

In addition, the SOMFY Chronis Uno L and Chronis IB L offer an automatic dusk control unit that operates your roller shutters and venetian blinds in conjunction with the switching time when dusk sets in.

## 1 Installation



Insert the plug of the brightness transmitter into the socket on the front of the Chronis L control unit.




Stick the suction cap of the brightness sensor to the inside of the window pane at the desired shade position of the roller shutter.

## 2 Programming

### 3.1 Automatic solar control unit






#### Switching the automatic solar control unit on / off.



The automatic solar control is activated when the UP switching time is reached and de-activated when the DOWN switching time is reached. This means the following in normal use: the automatic solar control unit is switched on during the day and off at night. When it is off, a  is shown in the display. You can switch the automatic solar control unit on or off manually during the day.





#### To switch the automatic solar control unit off:



- 1 Press  once → the time flashes.
- 2 Press  until the bar display  for the "Sun" reference value is displayed.
- 3 Press  several times until **hOFF** is displayed.
- 4 Press  to store the changes.

#### To switch the automatic solar control unit back on:




- 1 Press  once → the time flashes.
- 2 Press  until **hOFF** is displayed.
- 3 Press  several times until the desired number of bars for the "Sun" reference value has been set.
- 4 Press  to store the changes.

## Setting the automatic solar control unit

The desired brightness value at which the shutter is to move into the shade position can be selected by entering the "Sun" reference value. The factory setting for the automatic solar control unit is a threshold value of 6 bars (30 kLux approximately).

**Inputting the "Sun" reference value (can be entered at any time except in the "OFF" position) :**



- 1 press **set** once → the time flashes.
- 2 Press **▲** until the bar display  for the "Sun" reference value is displayed.
- 3 The "Sun" reference value can be set by pressing **◀▶** several times.
  - 1 bar = roller shutter moves into the shade position if sun is weak (10 kLux).
  - 12 bars = roller shutter moves into the shade position if sun is strong (more than 50 kLux).
- 4 Press **set** to store the changes.

**Tip:** it is best to enter data when the sun reaches the intensity at which you wish to move the shutter automatically into the shade position in the future. First set the "Sun" reference value to 12 bars, and then press Minus (-) until the sun symbol (☀) is displayed. This value then corresponds to the current solar intensity.

## Operating the automatic solar control unit

When the motor has been stopped manually or automatically in the UP direction, brightness is then measured. If the "Sun" reference value is exceeded, then the sun symbol (☀) is displayed on the control.

If the reference value is exceeded for more than 5 minutes, the roller shutter moves up level with the sensor, stops and moves briefly upward to exposed the sensor again (50% above the threshold).

→ The shutter is now in the Shade 1 position and the sun symbol (☀) is displayed permanently.

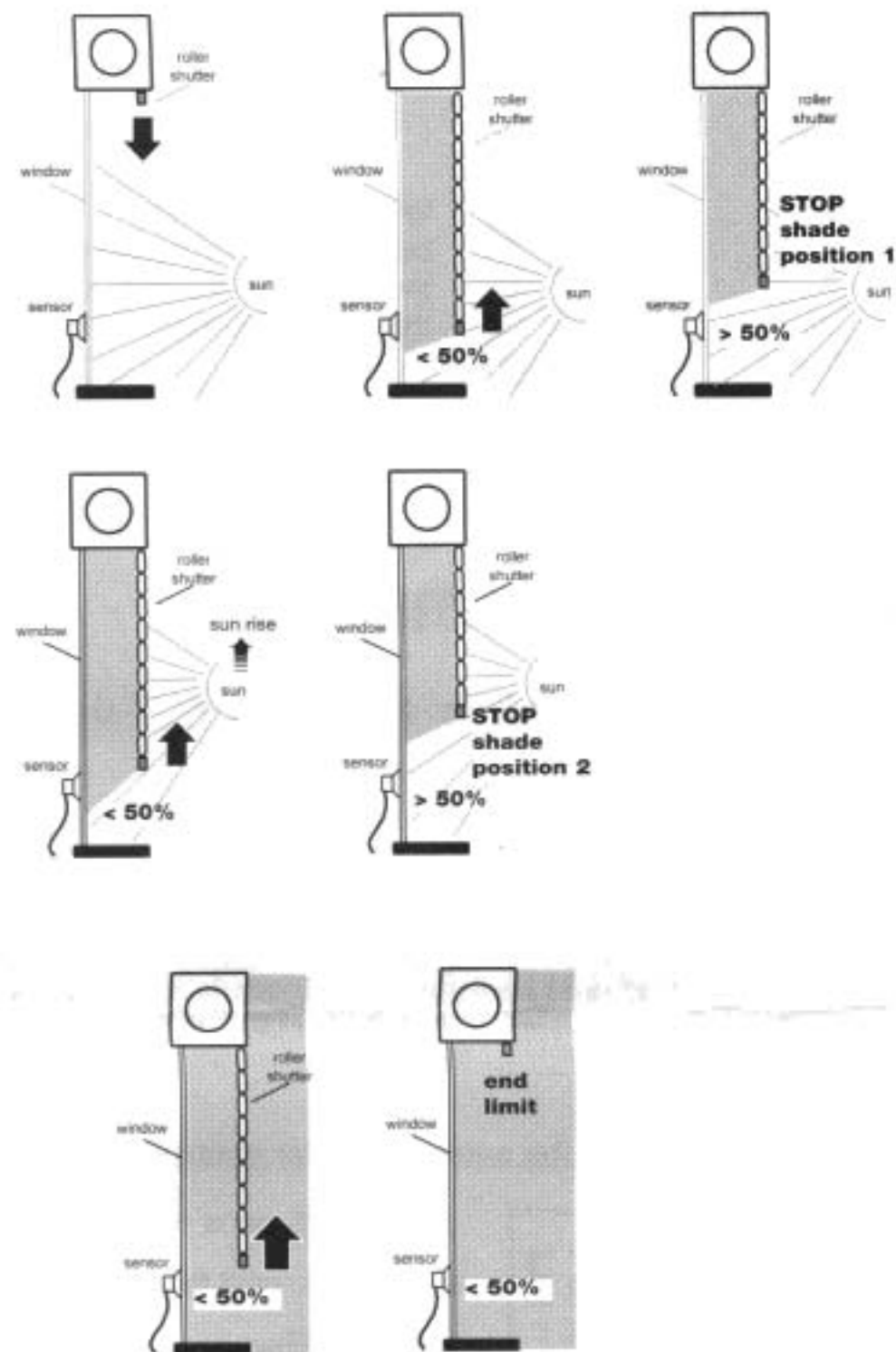
If the brightness falls below 50% of "Sun" reference value (sun rise), the sun symbol (☀) starts to flash. If this value remains below for more than 15 minutes, the control unit issues an UP command.

If the brightness measured during the UP command does not exceed 50% of "Sun" reference value anymore, then the shutter moves to its end limit. If the brightness exceed 50% during the UP command, then the shutter stops.

→ The shutter is now in the Shade 2 position and the sun symbol (☀) is displayed permanently.

If the brightness falls below 50% again for more than 15 minutes when the shutter is in shade position 2, then this one will be retracted to its UP limit.

There are 2 shade positions.



## Venetian blind operation (VB mode)

In VB mode an intermediate position (IP) and a (slat) rotating time have to be memorised. (Please follow the control unit's usage instructions). The brightness sensor must be attached to the window in such a way that it is not shaded in the intermediate position (IP) by the venetian blind.

If the "Sun" reference value is exceeded for more than 5 minutes, the venetian blind moves into the intermediate position (IP), stops there and rotates the slats. As soon as the "Sun" reference value falls below 50% for more than 15 minutes, the shutter moves back directly to its UP end limit.

With Chronis RTS L this function can be carried out only in conjunction with a suitable radio receiver that can move the blind to an intermediate position (IP) with slat rotating time.

## 3.2 Automatic dusk control unit (not with Chronis RTS L)

### Switching the automatic dusk control unit on / off

You can switch the automatic dusk control unit on or off manually. The factory setting for the automatic dusk control unit is ON.

#### To switch the automatic dusk control unit off :



- 1 Press once → the time flashes.
- 2 Press until the bar display for the "Dusk" reference value is displayed.
- 3 Press several times until **dOFF** is displayed.
- 4 Press to store the changes.

#### To switch the automatic dusk control unit back on :



- 1 Press once → the time flashes.
- 2 Press until **dOFF** is displayed.
- 3 Press several times until the desired number of bars for the "Dusk" reference value has been set.
- 4 Press to store the changes.

### Setting the automatic dusk control unit

The desired dusk value at which the shutter is to close in conjunction with the switching time can be set by entering the "Dusk" threshold value.

The factory setting for the automatic dusk control unit is pre-set to a mean value of 6 bars (60 Lux approximately). The "Dusk" reference value can be entered at any time except in the "OFF" position.



- 1 Press once → the time flashes.
- 2 Press until the bar display for the "Dusk" reference value is displayed.
- 3 The "Dusk" reference value can be set by pressing several times.

1 bar = roller shutter does not close until dusk has set (10 Lux).  
12 bars = roller shutter closes as early as the onset of dusk (250 Lux).



- 4 Press to store the changes.

**Tip:** It is best to enter data when the evening dusk reaches the brightness level at which you wish to have the shutter close automatically in the future. To do this, set the "Dusk" reference value to 1 bar, and then press Plus (+) until the moon symbol (☾) is displayed. This value then corresponds to the current dusk setting.

### Operating the automatic dusk control unit

As soon as the "Dusk" reference value does not meet the selected setting, the moon symbol (☾) is displayed. If the reference value remains below this level for more than 5 minutes approximately and the DOWN switching time has arrived already, the control unit gives a DOWN command. If the DOWN switching time has not been exceeded yet, the control unit waits until this time comes and then moves the shutter down.

#### Example:

DOWN switching time	Actual clock time	Dusk value	Action
20:00	19:45	reached	→ the DOWN arrow in the display flashes. → Wait until switching time of 20.00 comes
20:00	20:15	Not reached yet	→ Display in window changes to next UP switching time and DOWN arrow flashes! → Wait for as long as "Dusk" reference value is not met.
20:00	20:15	reached	→ Shutter moves down.

#### Note:

The dusk function can be impaired with strong sources of light in the surroundings of the light sensor.