ELECTRICAL WIRING DIAGRAM

GENERAL SWITCH
Allows to raise or lower all the blinds simultaneously.

SWITCH
UP
DW
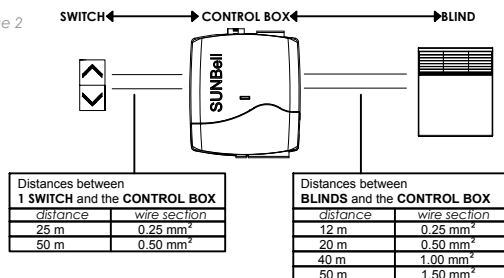COM

SWITCH
UP
DW
COM

Ant.

SWITCHING POWER SUPPLY
230 VOLTS

BLIND NUMBER 1
WHITE
GREY
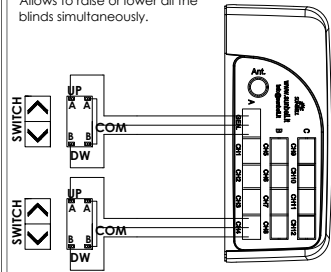
SINGLE SWITCH
Allows to raise and lower one blind.

⚠ **WARNING!**
IN CASE OF CONNECTION TO **HOME AUTOMATION SYSTEMS**, THE CONTROLLERS HAVE TO **SIMULATE** THE FUNCTIONING OF THE **TRADITIONAL WALL SWITCHES!**

⚠ **WARNING!**
DO NOT CONNECT MORE THAN 1 BLIND TO 1 OUTGOING CHANNEL!
IN ORDER TO **OPERATE MORE THAN 1 BLIND** WITH A SINGLE SWITCH, CONNECT 2 **INGOING** CHANNELS IN PARALLEL WITH THE SWITCH.

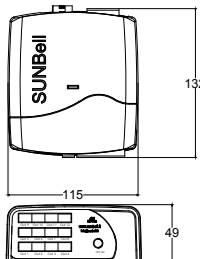## SIZE, DIMENSIONS AND MAXIMUM DISTANCES

SWITCH ◄──► CONTROL BOX ◄──────► BLIND

Distances between 1 SWITCH and the CONTROL BOX	
distance	wire section
25 m	0.25 mm²
50 m	0.50 mm²

Distances between BLINDS and the CONTROL BOX	
distance	wire section
12 m	0.25 mm²
20 m	0.50 mm²
40 m	1.00 mm²
50 m	1.50 mm²

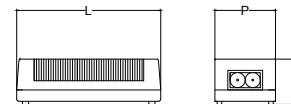**N.B.: STANDARD CABLE LENGTH 2000 mm**

CONTROL BOX DIMENSIONS
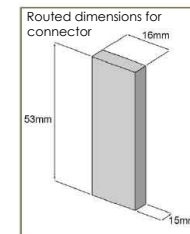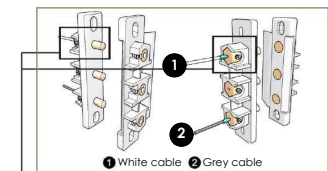132mmx115mmx49mm

132
115
49

POWER SUPPLY DIMENSIONS
L 156 mm x P 68 mm x H 40 mm (10-12 channels)
L 128 mm x P 52 mm x H 32 mm (6-8 channels)
L 108 mm x P 47 mm x H 29 mm (4 channels)
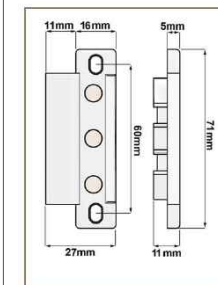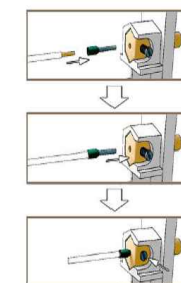L 96 mm x P 45 mm x H 31 mm (2 channels)

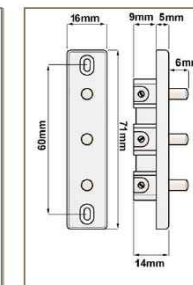L
P
H

ELECTRICAL CONTACT CONNETTORS

❶ ❷

❶ White cable ❷ Grey cable

➤ **WARNING:** do not tamper or modify the plastic wings. **Danger of short circuit!**

Routed dimensions for connector
16mm
53mm
15mm

FIXING CABLES TO CONNECTOR

11mm 16mm   5mm
60mm   71mm
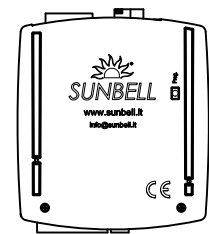27mm   11 mm

16mm   9mm 5mm
6mm
60mm   71mm
14mm

Located on the frame   Located on the hinged side

REMOTE CONTROL CONFIGURATION

- Press the "Prog" button on the back of "SUNCEN" control box.
- Within 30 seconds, turn the remote control on (keeping the ⊡ button pressed), select one of the channels (buttons ◁ ⊡ ▷) and press Λ or V.
- Wait 5 seconds then press Λ or V one more time.
- The raising/lowering of the corresponding blind confirms the correct and complete configuration.

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In case of multiple control boxes in the same building it is possible to vary the frequency as shown in the remote control user's manual.

USING THE REMOTE CONTROL

Power
Keep the ⊡ button pressed for 1 second. The white LEDS corresponding to the selected blinds turn on (the last selection made is saved).

Blinds selection
Select the blinds by using the buttons ◁ ⊡ ▷ . The flashing of the white LED indicates the current blind.
Press the ⊡ button to select the blind: a slower flashing of the white LED indicates that the selection is made.
The white LEDS steadily lit indicate the selected blinds. So it's possible to raise or lower single blinds, a group of blinds or all the blinds simultaneously.
Simultaneously press (for 1 second) the ◁ and ▷ buttons to select or deselect all the 12 blinds.

Raising, lowering and tilting the blinds
Press Λ or V button to raise or lower the blinds.
To change direction of the blinds' movement stop it by pressing the ⊡ button, then press Λ or V button.
Keep Λ or V button pressed to raise or lower the blinds in slow mode. Keep Λ or V button pressed to tilt the slats (function not available with fabric blinds).
The blue flashing of the LED indicates the transmission of the command.

Stop the blinds
Press the ⊡ button to stop the moving blinds. The blue LED flashing indicates the transmission of the command.

Stand by
The remote control automatically turns off after a 20 seconds inactivity. Every LED turns off.

USING THE WALL SWITCH

SINGLE SWITCH MOVEMENT
- The single pressure of the button (UP or DOWN direction, less than 1 second) allows to raise or lower the blind in fast function. The blind will stop when totally raised or lowered, or by pressing the button once more.
- The continuous pressure of the button (more than 1 second), allows to raise or lower the blind in slow function. It is possible to tilt the slats by keeping the opposite direction button pressed.

Important! In order to transmit a new command to the control box during fast function it is necessary to interrupt the previous one by pressing the UP or DOWN button once.

GENERAL SWITCH MOVEMENT
The general switch works exactly like the single switches, allowing to move every blind.

Warning! Use interlocked, 2 positions switches ONLY.

HOME AUTOMATION SYSTEMS - GUIDELINES

- Blinds must be connected to SUNBELL control box and switching power supply only.
- Blinds cannot be directly powered by the controllers of the home automation system.
- Controllers have to simulate the functioning of the traditional wall switches.
- Controllers have to produce the same pressing time of the traditional wall switches.
- CONTROLLERS CLOSING TIMES:
  - from 0.2 to 1.0 second: automatic fast function (raising and lowering function);
  - over 1.0 second: manual slow function (tilting function).

⚠ **WARNING!**
Using components not provided by Sunbell or not in conformity with the technical specifications provided, not respecting the instructions of use and installation will result in a void of warranty.

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IG BLINDS
INTERNAL BLIND SYSTEMS

INSTALLATION AND USE

HARDWIRED BLINDS WITH CONTROL UNIT

Video instructions