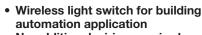
Specifications are subject to change without notice (03.06.2013)

Eunica line Wireless Light Switch Type SHE5XWLS4



- No additional wiring required
- Developed to fit into wall socket and frames from Elko, Gira and Jung
- Temperature range: -20 to +50°C
- 4 individually programmable pushbutton inputs
- Battery supplied with a lifetime up to 5 years
- Delivered with 2 white and 1 black pushbutton covers
 Standby mode to save battery
- Standby mode to save battery
 Wireless transmission based on IEEE 802.15.4, at 2.4
- GHz
- LED indication for battery low and field strength
- Integrated antenna

Product Description

The SHE5XWLS4 is a wireless light switch with 4 buttons and 4 LED outputs. It is developed to be mounted into a 55 x 55 wall socket from Elko, Gira and Jung. The light-switch has LEDs of two colours, red and blue, indicating the battery and wireless signal level. The light switch is part of the smart-house concept for building automation applications and can be used to control lights, roller blinds and all other functions supported by the smart-house controller. It is fully programmable via the SH tool and must always be coupled to a SH2WBU230 module.

| Ordering | Key | SH E | 5X W | / LS4 |
|-----------------|--------|------|-------------|-------|
| smart-house — | | | | |
| Eunica ——— | | | | |
| Housing 55 x 55 | mm ——— | | | |
| Wireless | | | | |
| Switch number | | | | |

Type Selection

| Housing | Colour | LEDs | Battery supplied |
|------------|--------------|----------------|------------------|
| 55 x 55 mm | White/Black* | 4 red / 4 blue | SHE5XWLS4 |

*Delivered with white and black pushbutton covers

Input Specifications

Key Pad

4 pushbuttons

Supply Specifications

| Power supply | Supplied by battery, type Lithium button 2450 3V |
|--------------------------|-----------------------------------------------------|
| Average battery lifetime | 5 years |

Output Specifications

LED

4 red / 4 blue



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General Specifications

| Address assignments / | | Weight | 50 g |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| channel programming | The address assignment is | CE Marking | Yes |
| | automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the SH tool. | EMC Immunity - Electrostatic discharge - Radiated radiofrequency - Burst immunity | EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 |
| Environment Degree of protection Pollution degree Operating temperature Storage temperature | IP 20 3 (IEC 60664) -20° to +50°C (-4° to 140°F) -30° to +60°C (-22° to 158°F) | Surge Conducted radio frequency Power frequency magnetic fields Voltage dips, variations, interruptions | EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11 |
| Humidity (non-condensing) | 20 to 80% RH | Emission | EN 61000-6-3 |
| Housing Back part dimensions Back part + front dimensions Back part material Push button covers | 55 x 55 x 16.1 mm 55 x 55 x 20.6 mm Plastic, transparent Plastic white (RAL 9010) Plastic clear white (RAL 9016) Plastic black | - Conducted emissions CISPR 16-2-1 (EN550 | CISPR 22 (EN55022), cl. B CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3) |

WiDup Specifications

| Bus | Wireless dupline | Antenna | Internal |
|------------------|----------------------------------------------------------------|-----------------------|----------------------------|
| Frequency | IEEE 802.15.4, @ 2.4 Ghz | Transmission power | According to IEEE 802.15.4 |
| Diagnostics | 2. Network activites | Sensitivity | According to IEEE 802.15.4 |
| | | Number of slave nodes | Up to 250 |
| Network Topology | 3. Devices' presence Star with max one wireless repeater | Transmission range | <100 m in the open air |

Mode of Operation

The SHE5XWLS4 is fully programmable via the SH tool. Each push-button can be individually associated to one or more of the functions supported by the smarthouse system.

Coding/Addressing

No addressing or association is needed since the module is provided with a specific identification number (SIN): the user has only to insert the SIN in the SH tool when creating the system configuration.

Wall Socket and frame compatible with the Eunica line

The Eunica 55 x 55 light switch can fit into the frame and wall socket listed below: for any other model not included here below, Carlo Gavazzi does not grant any compatibility. •ELKO •GIRA •JUNG.



Transmission range

The main factors that influence the transmission range of the SHE5XWLS4 are the antenna location of the receivers and transmitters, the building structure and the number of obstacles in the connection path.

Other factors are noise sources (wi-fi routers, micro oven, blue tooth devices,...) that affect the receiver and dead spots caused by signal reflection from nearby conductive objects. Since the anticipated transmission range depends on these system conditions, range tests should be performed before a specific range is determined for an application.

The following transmission ranges are to be viewed as general guidelines:

| Device | Operating |
|------------------------------------------|------------------------------|
| Position | Distance |
| In the open air | Approx. 100m |
| Plaster- board/wood | Approx. 30 m Max. 5 walls |
| Tile and cellu- lar concrete | Approx. 20 m Max. 3 walls |
| Reinforced concrete walls/ceilings | Max. 1 ceiling/ |

Transmission range is limited by:

- insulation material with metal foil

intermediate ceilings with metal or carbon fibre panelslead glass or metal-coated

glass - mounting wall transmitters

on metal walls

For more information about how to install a wireless network, please connect to the link given below.

http://www.productselection.net/MANUALS/UK/wireless_manual_rev01.pdf

LEDs Indication

Red LED:

If the battery level is good, the red LED is OFF. It flashes when the relevant

button is pressed and to advise about the following happenings:

Short blink: Sending data when associated to a SH2WBU230

Long blink: Sending data when not associated to any SH2WBU230

Fast blinking: When receiving a network configuration

Blue LED:

If the battery level is low, the blue LED is off. It flashes if the battery level is good when the relevant push-button is pressed and to advise about the following happenings:

Short blink: Sending data when associated to a SH2WBU230 Long blink: Sending data when not associated to any SH2WBU230 Fast blinking: When receiving a network configuration

