SCHEIBER

Start-up instructions

LIGHT AIR SWITCH

Description

Light Air Switch is the perfect solution to manage and transform the organisation of your low voltage DC lighting.

The 2.4Ghz gateway included in this kit makes possible to use the wireless and battery-free switches worldwide.

Kit contents :

1. Lighting Control Module x1
2. 2.4 Ghz Antenna module x1
3. CAN cable (1m) x1
4. 120 Ω terminations x2
5. 2-way PicoMax connectors x8
6. 6-way PicoMax connector x1
7. white 1-button switch x1
8. white 2-button switch x1

Characteristics

	LIGHTING CONTROL MODULE	2.4 GHZ ANTENNA MODULE	SWITCH	
				
REFERENCE	41.72119.XX XXXXXX	41.72120.XX XXXXXX	68.INT221-2.4	68.INT222-2.4
POWER SUPPLY	8-32V DC	witch CAN cable - 12VDC	Kinetic energy	
INPUTS	Up to 4 digital inputs for wired switches npn type			
OUTPUTS	6 outputs	-	-	
MAX.CURRENT PER OUTPUT	5A	-	-	
TOTAL MAX. CURRENT	20A/module	-	-	
DIMMING	Light intensity regulation on each output with PWM	-	-	
SUPPLY & OUTPUTS WIRE CROSS SECTION	0.2 to 2.5mm²			
CODING & INTPUTS WIRE CROSS SECTION	0.2 to 1.5mm²			
MAX. NUMBER OF PAIRING	128 (up to 4 pairings on a 2-button switch) Up to 32 2-button switches / 64 1-button switches	-	-	
CONNECTORS	BUS CAN type 6-way Micro-Fit 2-way PicoMax outputs 6-way PicoMax inputs and coding	BUS CAN type 6-way Micro-Fit Scheiber v8.0 Multibloc Protocol	-	
ANTENNA	-	PCB antenna	PCB antenna	
FIRMWARE VERSION	-	8.00 or higher	-	
NUMBER OF BUTTONS	-	-	1	2
TRANSMISSION RANGE	-	20m indoor	20m indoor	
RADIO STANDARD / DEFAULT RADIO CHANNEL	-	2.4 Ghz IEEE 802.15.4 channels 11 ... 26 / IEEE 802.15.4 radio channel 11	2.4 Ghz IEEE 802.15.4 channels 11 ... 26 / IEEE 802.15.4 radio channel 11	
DEVICE IDENTIFICATION	-	-	Individual 32 Bit Device ID (factory programmed))	
SECURITY	-	-	AES128 (CBC) with Sequence Counter	
ENERGY BOW TRAVEL/FORCE	-	-	1.8 mm / typ. 10 N (at room temperature)	
NUMBER OF OPERATIONS AT 25°C	-	-	typ. 100.000 (tested according to EN 60669 / VDE 0632)	
CERTIFICATION	CE	CE	CE	
ENVIRONMENTAL CONDITIONS	Indoor use Altitude up to 2000m Operating temperature : 0 to +50°C Humidity : 0 to 93% without condensation	Indoor use Altitude up to 2000m Operating temperature : 0 to +50°C Humidity : 0 to 93% without condensation	-25°C to + 65°C	
ELECTRICAL PROTECTION OF THE POWER LINE	Fuse or circuit breaker			
PROTECTION CALIBRE	16A if one power line in 2.5mm² 20A if two power lines in 2.5mm²			
PROTECTION POSITION	accessible and identified for the user			
DIMENSIONS (LxWxH)	110 x 77 x 26 mm	146 x 48 x 13.5	80 x 80 x 14.5 mm	
MOUNTING DISTANCE	width: 60mm height: 100mm	vertical position : 50mm horizontal position : 129mm		
WEIGHT	0.120 Kg	0.150 Kg	0.06 Kg	

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Marinebeam LED Lighting

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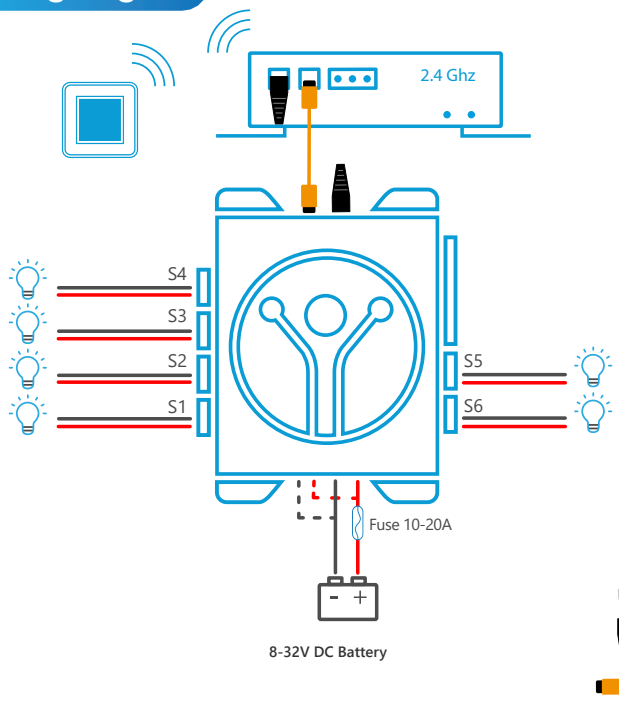
Installation instructions

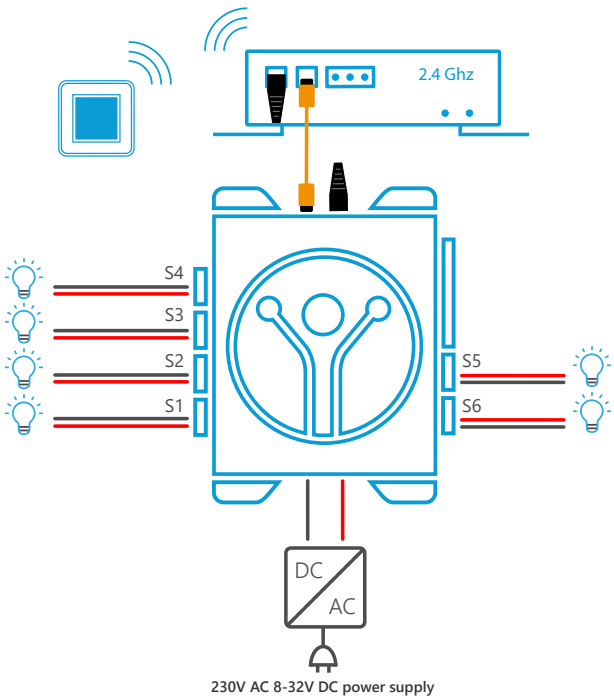
- This device must be located in a ventilated place to avoid the risk of water spatter.
- Do not install on heat-sensitive supports as carpet, PVC floor, etc...
- Imperatively install the product in a cool and dry place.

Markings used

Symbols	Description
V	Volt
A	Ampere
Kg	Kilogram
DC or ⎓	Direct current

Wiring diagram





120 Ω terminaison

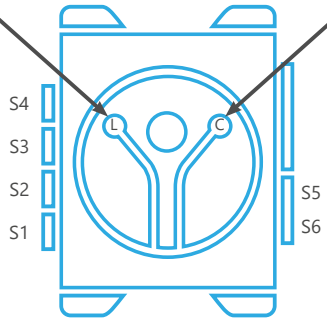
CAN cable

Up to 16A, you can only use one output (1-2 or 3-4).
Beyond, the power supply must be doubled (1 to 4).

Pairing

L key (learn)

To get into set-up mode and change the activated output

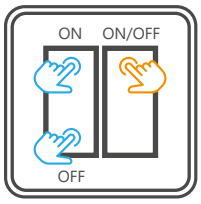


C key (clear)

To clear a set-up output or the 6 outputs of this lighting control module

- A long press (1.5sec) on the L key takes you into the set-up mode.
- Output 1 (S1) flashes, briefly press the switch button you want to turn output 1 ON, then press a second time the switch button you want to turn output 1 OFF.

Case 1 : ON/OFF with 2 buttons
Case 2 : ON/OFF with 1 button



- **In set-up mode**, (one of the module's outputs flashes), a long press on the C key clears the setup of the selected flashing output.
- **In normal mode**, a long press (1.5 seconds) on the C key clears the set-up of all the outputs of this module.

Note: It is also possible to remove one switch from an output (without clearing the other switches associated with that output). To do this, select the applicable output with the L key on the module. Then, when the output flashes, press the switch you want to remove until the output starts flashing again after having been off for 1 or 2 seconds.

- Each press on the L key changes the activated output. The seventh press exits the set-up mode.
- If no action is taken for 2 minutes, the module returns to normal mode.

EXAMPLE : ALLOCATION OF A SWITCH TO OUTPUT 2

- A long press on the L key : output 1 (S1) flashes
- A second press of the L key : output 2 (S2) flashes
- Briefly press the switch you want to turn output 2 ON : output 2 is ON
- Briefly press the switch you want to turn output 2 OFF : output 2 flashes again

An ON switch and an OFF switch are now allocated to output 2. You can continue to allocate more switches to the same output by pressing them or you can move on to setting up output 3 (S3) by pressing the L key.

NOTE: 2.4 Ghz antenna module has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference's by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
According §15.21 of the CFR 47- FCC part 15:
Any changes or modifications to this equipment not expressly approved by the responsible party may cause, harmful interference and void the FCC authorization to operate this equipment.

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