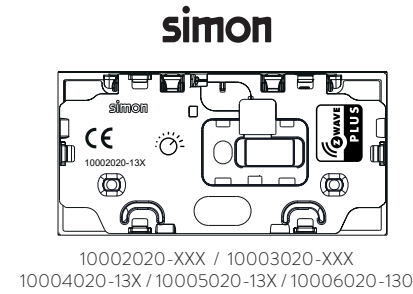


DESCRIPTION

Once plugged to 10000320-039, this key permits the direct control of a dimmable lamp offering toggle and dimming functions.

CONFIGURATIONS



Características técnicas

Voltage Supply From
10000320-039

INTERFACE CONNECTOR
To be plugged on 10000320-039

INDICATORS
7LED

40°C
0°C

90%HR

IP20

CE

EAC

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KEYPAD USE & FEEDBACKS

EVENT	KEY ACTION	LIGHT ESTATE	FEEDBACK LEDS	LIGHT ACTION
	Not pressed		- OFF (Reference setting point 1 and 12) - Key not included with a Z-Wave network; intermittent of 2sec. - Error: intermittent of 0.1sec.	
Touch slider area	Touching detected	OFF	The LEDs show the last dimming value	
		ON	The LEDs show the dimming value	
Slide finger across touch area	Slider detected	OFF	The LEDs turns ON/OFF showing the dimming value that will be set after press the key.	
		ON	The LEDs turns ON/OFF showing the dimming value	Load is dimmed while finger slides over the touch area
Press key	short press t<2s	OFF	The LEDs shows the dimming value; if slider area is not touched, LEDs will remain ON for 5 sec	Light is turned ON to the value shown on the LEDs
		ON	The LEDs shows the dimming value; if slider area is not touched, LEDs will remain ON for 0,5 sec	Light turns OFF
Add/Remove to/from Z-Wave Network	Long press 2s<t<10s		Central LED blinks until release of Pushbutton	The device sends a Node Info to be included/excluded or associated with a Z-Wave network device.
Calibrate ¹	Long press 10s<t<15s		All LEDs blink during calibration	The dimmer performs a slow ON ramp and some ON/OFF cycles to adjust calibration parameters. After calibration the light will recover the state before calibration.
Set min dimming value	Long press 15s<t<30s		Left LED starts to blink until slider area is touched. Then LEDs will follow the touch.	The light is turned ON with 1% of dimming. After that, the dimmer will follow the touch detection and dim the light from 1% up to 50%. When touch is pressed again. The dimming value will be set as minimum dimming value.
Reset default**	Long press t>30s		The central LED lightup for 2.5 sec.	The dimmer parameters are set to default. It is reported that calibration is necessary. ¹

¹ By default, the first time the electronic controller is powered, it needs to be calibrated. That situation is indicated with a fast blinking in the central LED. Calibration will be performed after the first press in the rocker or in the electronic controller 10000320-039. During the calibration, LED's will flash and the load will be regulated gradually. This process can take 1 minute.

* Some of the functions can be changed depending on the configuration parameters.

** Please use this procedure only when the network primary controller is missing or otherwise inoperable

Z-WAVE COMPLIANCE

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Z-WAVE SPECIFICATIONS

Z-WAVE DEVICE SPECIFICATION		SUPPORTED COMMAND CLASSES	
Device Type	ON/OFF POWER SWITCH	COMMAND_CLASS_ZWAVEPLUS_INFO_V2	
Generic Device Type	GENERIC_TYPE_SWITCH_MULTILEVEL	COMMAND_CLASS_VERSION_V2	
Specific Device Type	SPECIFIC_TYPE_POWER_SWITCH_MULTILEVEL	COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2	
		COMMAND_CLASS_BASIC_V1	
Role Type	ROLE_TYPE_SLAVE_ALWAYS_ON	COMMAND_CLASS_SWITCH_MULTILEVEL_V3	
		COMMAND_CLASS_ASSOCIATION_V2	
		COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3	
		COMMAND_CLASS_POWERLEVEL_V1	
		COMMAND_CLASS_CONFIGURATION_V2	
		COMMAND_CLASS_METER_V4 (Electric measurement; only Watts measurement allowed)	
		COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1	
		COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4	

ASSOCIATION GROUPS

Groups	Group 1 (Lifeline) -> Name "LIFELINE"
Max. devices in Group	3
Automatic reports	On/Off Report when load state is changed: - On -> CC Basic, Basic Report, Value 0x01 - 0x63 Report the dimming level - Off -> CC Basic, Basic Report, Value 0x00 Instant Power Consumption vary over 10% and is stable almost 2sec. - CC Meter, Meter Report, "Electric meter", "Consumed", "Watts" Size 4, Precision 1, Value (W) Calibration requirement change. (If device needs to be calibrated and is Added into a Z-Wave network, it will report after receive an Association Set of life line). - Calibration required -> CC Configuration, Configuration Report, Param 23, Value 0xFF - Calibration not required -> CC Configuration, Configuration Report, Param 23, Value 0x00 After reset the Z-Wave module, a DEVICE-RESET-LOCALLY-NOTIFICATION is sent.
Groups	Group 2 (Control) -> Name "CTRL"
Max. devices in Group	20
Automatic reports	On/Off Report when load state is changed: - On -> CC Basic, Basic Report, Value 0x01 - 0x63 Report the dimming level - Off -> CC Basic, Basic Report, Value 0x00

NAME	SIZE	VALUE
1 Association LED	1	0x00 -> Turns the LED OFF (default value) 0xFF -> Turns the central LED ON
4 Set time	1	0x00 Instantly (default value) Disable timing
5 Fade time	1	0x01-0x7F 1 second (0x01) to 127 seconds (0x7F) in 1 second resolution
10 Delay ON	1	0x80-0xFE 1 second (0x80) to 127 minutes (0xFE) in 1 minute resolution
11 Activation time	1	
16 Delay OFF	1	
9 Calibration ²	1	0x01 -> Device performs calibration using Trailing and leading Edge and decides which one is better. 0x02 -> Device is calibrated using Trailing Edge. 0x03 -> Device is calibrated using Leading Edge.
6 Min dimming value %	1	0x01 (min) - 0x63 (max) (MAX > MIN) Establishes the Max and Min percentages that can be reached. Once the devices gets a value through Z-Wave it Scales the value read according this Min and Max margins.
7 Max dimming value %	1	
8 Last on value	1	0x01 - 0x63 returns or sets the last non zero dimming value. In case of Set the device turns ON the load.
12 behavior of LED in repose	1	0x00 -> LED OFF (Default) 0xFF -> Central LED on at 20% of maximum level
13 Lock input	1	0x00 -> Unlock the direct control of load. (Default value) 0xFF -> Lock the direct control of load.
15 Reset default (write only)	2	0x9867 -> Parameters, Groups, and Z-Wave status are restored to default. 0x4312 -> Parameters, except Lock long press are restored to default.
19 Press action	1	0 -> when press t<2sec device toggles the load. The Slider does not work 1 -> when press t<2sec device turns ON the load. The Slider does not works. 2 -> when press t<2sec device turns OFF the load. The Slider does not works. 4 -> when press t<2sec device turns ON the load. when press 2sec t<10sec device turns OFF the load. The Slider does not works. With this configuration, the device will not send the Node Info neither Show the LEDs feedback with this press action. The Slider does not works. 5 -> (default value) when press t<2sec device toggles the load. The Slider dims the load when it is ON.
20 Identify (write only)	1	0xFF -> The central LED blinks for 5 seconds in order to identify the device.
21 State of charge (read only)	2	B0 -> 0x00 Load is OFF 0x01 Load is ON B1 -> 0x00 - 0x63 Last active dimming value.
23 Calibration required (read only)	1	0x00 -> Calibration is not required. 0xFF -> It is necessary to calibrate the dimmer to work properly.
27 Lock long press	1	0x00 -> Long press works as described previously. (default value) 0xFF -> Long press of 2s t<10s don't sends the Node Info Long press of t>30s Parameters, except Lock long press are restored to default and device send a Node Info.

⚠ All These configurations are not restored to default when device is removed from network. COMMAND_CLASS_DEVICE_RESET_LOCALLY a DEVICE_RESET_LOCALLY_NOTIFICATION will be sent to inform controller that node has been removed from network, but the device will keep the current configurations. To restore the configurations values, please perform one of these actions:

- Use Command CONFIGURATION SET with default bit to 1 for each configuration parameter.
- Perform Reset Default Action via keypad pressing or Configuration command Default.

² Calibration process takes around 15-20 seconds please avoid to interact with Dimmer while this operation is performed to grant the correct calibration of dimming control.

⚠
To remove it is necessary to use a tool applied in the marked areas.