# ENGLISH

## DESCRIPTION

Once plugged to 10000322-039 or 10000320-039, this key allows the direct control of a load via local pulsation or Z-Wave.

## KEYPAD USE & FEEDBACKS FOR SWITCH (10000322-039)

| EVENT | KEYPAD ACTION | LOAD STATE | FEEDBACK LEDS | LOAD ACTION |
|---|---|---|---|---|
| | No pushed | | - OFF (Reference setting point 1 and 12)<br>- Key not associated with a Z-Wave network: intermittent of 2sec.<br>- Error: intermittent of 0.1sec. | |
| Slider Area touch | Touch detected | | Central LED lights UP for 5 sec | |
| Press key | Short press (t<2sec) | OFF | Central LED ON for 5 seconds | Turns ON |
| | | ON | Central LED Turns OFF | Turns OFF |
| Add/Remove to/from Z-Wave Network | Long press 2s<t<30s | | Central LED blinks until release of Pushbutton | The device sends an Info node to include the exclusion of the Z-Wave network or asociaton to an auxiliar device. |
| Reset default | Long press t>30s | | Main LED light up for 2.5 sec. | Reset to default state. |

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

## KEYPAD USE & FEEDBACKS FOR DIMMER (10000320-039)

| EVENTE | KEY ACTION | LIGHT ESTATE | FEEDBACK LEDS | LIGHT ACTION |
|---|---|---|---|---|
| | Not pressed | | - OFF (Reference setting point 1 and 12)<br>- Key not associated with a Z-Wave network: intermittent of 2sec.<br>- 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<30s | | Central LED blink during calibration | The dimmer performs a slow ON ramp and some ON/OFF cicles to adjust calibration parameters. After calibration the light will recover the state before calibration. |
| Reset default | Long press t>30s | | The central LED performs 1 blink of 2.5 sec. | The dimmer parameters are set to default. It is reported that calibration is necesary. [1] |

[1] 1 By default, the first time the electronic controller is powered, it needs to be calibrated. That situation is indicatedwith 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, central LED 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.

## 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 | |
|---|---|
| Device Type | ON/OFF POWER SWITCH |
| Generic Device Type | GENERIC_TYPE_SWITCH_BINARY |
| Specific Device Type | SPECIFIC_TYPE_POWER_SWITCH_BINARY |
| Role Type | ROLE_TYPE_SLAVE_ALWAYS_ON |

| SUPPORTED COMMAND CLASSES |
|---|
| COMMAND_CLASS_ZWAVEPLUS_INFO_V2 |
| COMMAND_CLASS_VERSION_V2 |
| COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2 |
| COMMAND_CLASS_BASIC_V1 |
| COMMAND_CLASS_ASSOCIATION_V2 |
| COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3 |
| COMMAND_CLASS_POWERLEVEL_V1 |
| COMMAND_CLASS_CONFIGURATION_V2 |
| COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1 |
| COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4 |
| COMMAND_CLASS_SWITCH_BINARY_V1 |
| COMMAND_CLASS_METER_V4 |

## ASSOCIATION GROUPS

| Groups | Group 1 (Lifeline) -> Name "LIFE" |
|---|---|
| Max. devices in Group | 3 |
| Automatic reports | On/Off Report when load state is changed:<br>- On -> CC Basic, Basic Report, Value 0xFF<br>- Off -> CC Basic, Basic Report, Value 0x00 |
| | Instant Power Consumption vary over 10% and is stable almost 2sec<br>- 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 ZWave network, it will report after receive an Association Set of life line).<br>- Calibration required -> CC Configuration, Configuration Report, Param 23, Value 0xFF<br>- Calibration not required -> CC Configuration, Configuration Report, Param 23, Value 0x00<br>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:<br>- On -> CC Basic, Basic Report, Value 0xFF<br>- Off -> CC Basic, Basic Report, Value 0x00 |

## CONFIGURATION

| | NAME | SIZE | VALUES | |
|---|---|---|---|---|
| 1 | Association LED | 1 | 0x00 -> Turns the LED OFF (default)<br>0xFF -> Turns the LED ON | |
| 10 | Delay On | 1 | 0x00 | Disables timing (default) |
| 11 | Activation TIME | | 0x01-0x7F | 1 second (0x01) to 127 seconds (0x7F) in 1 second resolution. |
| 16 | Delay Off | | 0x80-0xFE | 1 minute (0x80) to 127 minutes (0xFE) in 1 minute resolution. |
| 9 | Calibration [2] | 1 | 0x01 -> Device performs calibration using Trailing and leading Edge and decides which one is better.<br>0x02 -> Device is calibrated using Trailing Edge.<br>0x03 -> Device is calibrated using Leading Edge. | |
| 12 | Behavior of LED in Repose | 1 | 0x00 -> LED OFF (Default)<br>0xFF -> LED on at 20% of maximum level | |
| 13 | Lock Input | 1 | 0x00 -> Unlock the direct control of load. (Default)<br>0xFF -> Lock the direct control of load. | |
| 15 | Reset Default (Write Only) | 2 | 0x9867 -> Parameters, Groups, and Z-Wave status are restored to default.<br>0x4312 -> Parameters, except Lock long press are restored to default. | |
| 19 | Press Action | 1 | 0 -> (Default) When press t<2sec device toggles the load.<br>1 -> When press t<2sec device turns ON the load.<br>2 -> When press t<2sec device turns OFF the load.<br>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. | |
| 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<br>0x01 Load is ON. | |
| | | | B1 -> 0x00 Load is OFF<br>0xFF Load is ON | |
| 23 | Calibration Required (Read Only) | 1 | 0x00 ->Calibration is not required.<br>0xFF -> It is necessary to calibrate the dimmer to work properly. | |
| 27 | Lock long press | 1 | 0x00->Long press works as described previously.(Default)<br>0xFF ->Long press of 2s<t<10s don't sends the Node Info<br>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 -> 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 15seconds please avoid to interact with Dimmer while this operation is performed to grant the correct calibration of dimming control.

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A991027 09-02-2017