



Aeon Labs Micro Double Switch

(Z-Wave Micro Double Switch)



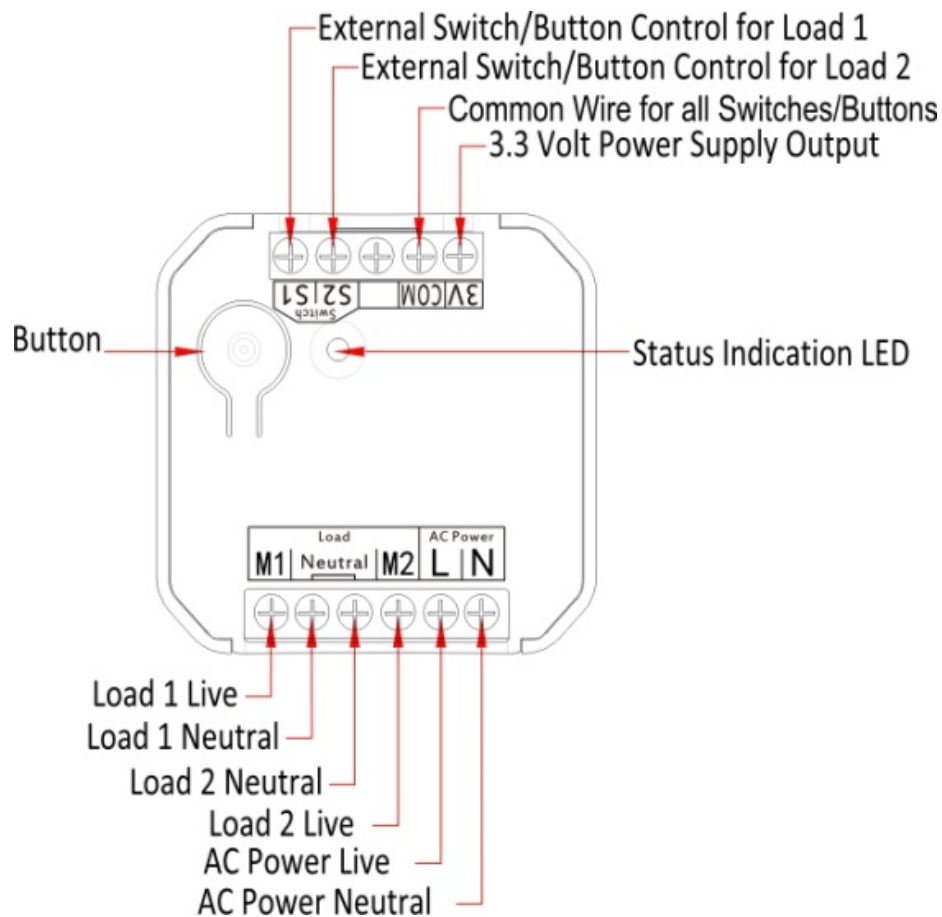
Aeon Labs Micro Double Switch – Engineering Specifications and Advanced Functions for Developers (SW Version: V1.07)

The Aeon Labs Micro Double Switch is a power binary switch device based on Z-wave routing slave library V5.02 Patch3. Micro Double Switch application lists the following supported command classSwitch in the Node Information Frame:

- COMMAND_CLASS_SWITCH_BINARY
- COMMAND_CLASS_SWITCH_ALL
- COMMAND_CLASS_CONFIGURATION
- COMMAND_CLASS_ASSOCIATION
- COMMAND_CLASS_MANUFACTURER_SPECIFIC
- COMMAND_CLASS_VERSION
- COMMAND_CLASS_MULTI_CHANNEL
- COMMAND_CLASS_MARK
- COMMAND_CLASS_HAIL

As soon as Micro Double Switch is removed from a z-wave network it will restore itself into factory Settings.

Interface:



Event And Response:

Event	Response
Z-wave Button Clicked	Node Info Frame/Enter learn mode. Toggle on/off status.
Z-wave Button Held	<p>5 Seconds: Change the external switch modes of Micro Double Switch:</p> <ol style="list-style-type: none"> 1. Make sure the Micro Double Switch has been connected to the power supply. 2. Holding then releasing the button after 5 seconds will cycle the mode on the external wall switch. (the LED will be blinking slowly after holding the button for 5 seconds). <p>15 Seconds: Reset the external switch mode to "unknown":</p> <ol style="list-style-type: none"> 1. Make sure the Micro Double Switch has been

	<p>connected to the power supply.</p> <p>2. Holding then releasing the button after 15 seconds will reset the external switch mode to "unknown" and allow for an auto-detect via toggling the external switch once (the LED will be blinking fast after holding the button for 15 seconds).</p> <p>30 Seconds: Reset Micro Double Switch to factory Default:</p> <p>1. Make sure the Micro Double Switch has been connected to the power supply.</p> <p>2. Holding the button for 30 seconds and releasing will reset the entire module including z-wave to factory default (the LED will stay solid after holding the button for 30 seconds).</p> <p>Note: The device Tag will not reset.</p>
Z-wave Button Released	<p>Node Info Frame/Enter learn mode.</p> <p>Toggle on/off status.</p>
External Switch/Button Clicked (momentary button mode)	<p>If not in z-wave network, Enter learn mode.</p> <p>Toggle on/off status.</p>
External Switch/Button Decuple Clicked (momentary button mode)	<p>Node Info Frame/Enter learn mode.</p>
External Switch/Button Open (2 state switch mode)	<p>If not in z-wave network, Enter learn mode.</p> <p>Toggle on/off status.</p>
External Switch/Button Close (2 state switch mode)	<p>If not in z-wave network, Enter learn mode.</p> <p>Toggle on/off status.</p>
External Switch/Button Decuple Open/Close (2 state switch mode)	<p>Node Info Frame/Enter learn mode.</p>

We can configure Micro Double Switch the following values by using configuration command class:

Using the Configuration Command Class:

Configuration Set Command

7	6	5	4	3	2	1	0
Command Class = COMMAND_CLASS_CONFIGURATION							
Command = CONFIGURATION_SET							
Parameter Number							
Default	Reserved					Size	
Configuration Value 1(MSB)							
Configuration Value 2							
.....							
Configuration Value n(LSB)							

1. Parameter Number(8 bit)

Currently the following parameter numbers are defined:

Parameter Number	Description
2	Make Micro Double Switch blink.
80	Enables automatic notifications to associated devices whenever there is a state change. (0=nothing, 1=hail CC, 2=basic CC report).
120	Set External Switch/Button Control mode
254	Device Tag.
255	Reset to the default Configuration.

2. Default (1 bit)

If the default bit is set to 1 the device is set to default factory setting and the configuration values is ignored. If the default bit is set to 0 then the configuration values is used. Refer to the table below with respect to default value for the relevant parameter number.

Parameter Number	default factory setting
80	0
120	255
254	0

3. Size (4 bit)

The size field indicates the number of bytes that is used for the configuration value. Refer to the table below with respect to size for the relevant parameter number.

Parameter Number	Size
2	2
80	1
120	1
254	2

4. Other Configuration Values:

Parameter Number	Configuration Value	Size(byte)	Description
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2	Configuration Value 1: 1-255 Configuration Value 2: 1-255	2	Configuration Value 1 is to Specify the time that Micro Double Switch need blink, The unit is Second; Configuration Value 2 is to Specify the Cycle of on/off, the unit of it is 0.1 second. For example: if we set Configuration Value 1 to '15', Configuration Value 2 to '10',then Micro Double Switch will open 0.5 second, close 0.5 second, and repeat for 14 times.
80	0x00	1	nothing
	0x01		Send hail CC
	0x02		Send basic report CC
120	0x00	1	Momentary button mode
	0x01		2 state switch mode
	0xff		Unidentified mode
254	0x0000-0xffff	2	Tag

Example:

a. Automatically report Basic Report CC to node "1".

1. Set report group 1 send Basic Report CC.

```
ZW_SendData(0x70, 0x04, 0x50, 0x01, 0x02);
```

2. Associate to node "1"

```
ZW_SendData(0x85, 0x01, 0x01, 0x01);
```

b. Set default values

```
ZW_SendData(0x70, 0x04, 0x255,0x01,0x00);
```