

Aeotec WallSwipe



Change history

Revision	Date	Change Description
1	10/09/2018	Initial draft.
2	11/13/2018	Update
3		
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Aeotec WallSwipe Engineering Specifications and Advanced Functions for Developers

Aeotec by Aeotec WallSwipe is a capacitive touch button switch panel, used to connect Aeotec Nano products to control the output loads (on/off/dim) via touching, long pressing, sliding the button area. It also supports control of the load via gesture over the panel.

Its surface has some RGB LEDs to indicate the button actions and the status of load.

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1. Technical specifications

Model number: ZW158 Input: DC 3.0V to 3.6V.

Max power consumption: <0.2W.

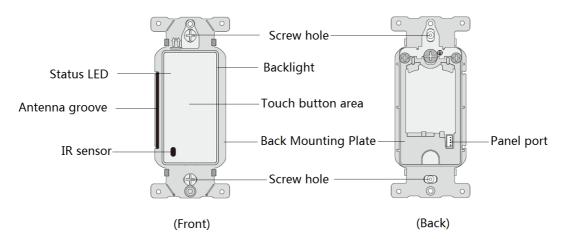
Operating temperature: 0°C to 40

Relative humidity: 8% to 80%RH.

IR/Gesture detection sensitivity: Max 3cm.

2. Familiarize yourself with your WallSwipe

2.1 Interface



2.2 Wire connection



3. All functions of each trigger

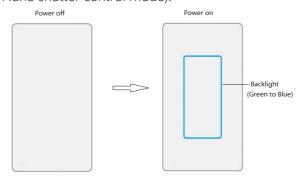
Donald care		T.:	Function						
Product	Action	Trigger times	If out of network	If in netwo	rk				
		Click	Toggle On/Off; Send Non-Security NIF						
Nano Switch		Double Click	Send Security NIF	N/A					
		Multi Click	N/A	N/A					
	Тар	2 Up-Down Click	N/A	Send NIF					
		4 Up-Down Click	N/A	Enter RF power test mode					
		6 Up-Down Click	Exit Learn Mode	Reset to factory defaults					
	Hold	Hold	N/A	N/A					
	Cliala	Up	N/A	N/A					
	Slide	Down	N/A	N/A					
	Wave	Up	Turn On load		Turn On load		Scene On/ Scene Off		
		Down	Turn Off load	Option 1	Turn Off load	Option 2			
		Left	N/A		Scene On/				
		Right	N/A		Scene Off				
		Click Up area	Toggle Switch 1 On/Off, Send out Non-Security NIF	Switch 1 Toggle On/Off					
		Click Down area	Toggle Switch 2 On/Off; Send Non-Security NIF	Switch 2 Toggle On/Off					
		Double clicks	Send Security NIF	Disabled					
	Тар	Multi clicks	N/A	Disabled					
Dual Nano Switch		2 Up-Down clicks	N/A	Send NIF					
		4 Up-Down clicks	N/A	Enter RF power test mode					
		6 Up-Down Click	Exit Learn Mode	Reset to factory defaults					
	Hold	Hold	N/A	N/A					
	Slide	Up	Both Switches On	Both Switch	nes On				
	Silde	Down	Both Switches Off	Both Switch	nes Off				

		Up	Both Switches On		Both Switches			
	Wave	Down	Both Switches Off	Option 1	Both Switches Off	Option 2	Scene On/ Scene Off	
		Left N/A Right N/A			Scene On/ Scene Off			
		Click once	Toggle On/ Off, Send Non-Security NIF	Toggle On/ Off				
		Double clicks	Send Security NIF	Disabled				
		Multi Click	Disabled	Disabled				
	Тар	2 Up-Down Click	Disabled	Send NIF				
		4 Up-Down Click	Disabled	Enter RF power test mode				
		6 Up-Down Click	Exit Learn Mode	Reset to fa	ctory defaults			
Nano		Hold Up-area	Dim up until release, the max brightness is 99%.	Dim up unt	til release, the max	brightness is 99	9%.	
Dimmer	Hold	Hold Down- area	Dim down until release, the min brightness is 5%	Dim down until release, the min brightness is 5%				
	Slide	Up	Dim up until release, the max brightness is 99%.	Dim up until release, the max brightness is 99%				
		Down	Dim down until release, the min brightness is 5%	Dim down until release, the min brightness is 5%				
	Wave	Up	Dim On		Dim On	Option 2		
		Down	Dim Off	Ontion 1	Dim Off		Scene On/ Scene Off	
		Left	N/A	Option 1	Scene On/			
		Right	N/A		Scene Off			
		Click Top area	Up direction moving. Send Non-Security NIF	Up				
		Click Middle area	Stop moving; Send Non-Security NIF	Stop				
		Click Bottom area	Down direction moving. Send Non-Security NIF	Down				
	Тар	Double clicks	Send Security NIF	N/A				
	'	Multi clicks	N/A	N/A		-	-	
		2 Up-Down clicks	N/A	Send NIF				
Nano Chuttar		4 Up-Down clicks	N/A	Enter RF power test mode				
Nano Shutter		6 Up-Down clicks	Exit Learn Mode	Reset to factory defaults				
		Hold Top area	Up direction moving. until release	Up direction moving. until release				
	Hold	Hold Middle area	N/A	N/A				
		Hold Bottom area	Down direction moving until release	Down direction moving until release				
	Slide	Up Down	N/A	N/A				
	Wave	Up	Up direction moving	Option 1	Up direction moving	Option 2	Scene On/	
		Down	Down direction moving		Down direction		Scene Off	

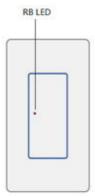
			moving	
	Left	N/A	Scene On/	
	Right	N/A	Scene Off	

4. Panel control of WallSwipe

When the WallSwipe is powered on and connected to a Nano device, you will see the backlight is lighted up. At the same time, the WallSwipe starts recognizing the connected Nano device and then enter the correct control mode (Nano Switch control mode, Dual Nano Switch control mode, Nano Dimmer control mode or Nano shutter control mode).

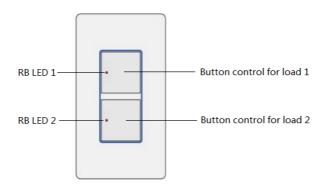


4.1 When the WallSwipe enters the Nano Switch control mode, there will be only one RB LED is lighted up on the top left of panel (see below figure), which means the current control destination is a Nano Switch device, the RB LED is also used to indicate the output load states (red color indicates the load is off, blue color indicates the load is on). You can press the panel button to toggle on/off the output load.

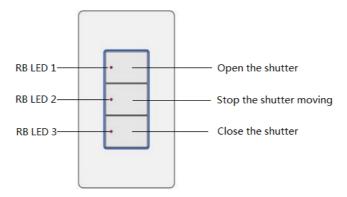


4.2 When the WallSwipe enters the Dual Nano Switch control mode, there will be two RB LEDs are lighted up on the panel (see below figure), which means the current control destination is a Dual Nano Switch device, the RB LEDs are also used to indicate the 2 output loads' state (red color

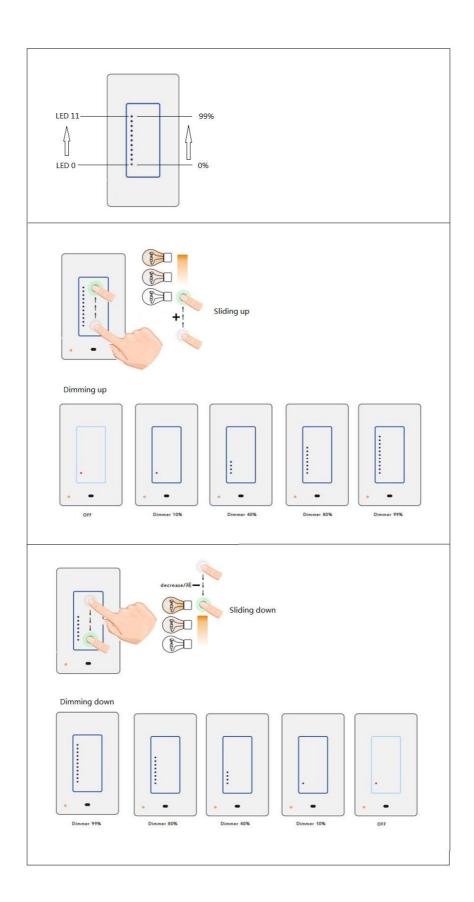
indicates the load is off, blue color indicates the load is on). Pressing the buttons will toggle on/off the output load.



4.3 When the WallSwipe enters the Nano shutter control mode, there will be three RB LEDs are lighted up on the panel (see below figure), which means the current control destination is a Nano shutter device, the RB LEDs are also used to indicate the motor's state (red color indicates the motor is inactive, blue color indicates the motor is activated and the buttons are pressed). You can press and hold the button area to control the shutter to open/stop/close.



4.4 When the WallSwipe enters the Nano Dimmer control mode, there will be 11 LEDs are lighted up on the panel (see below figure), which means the current control destination is a Nano Dimmer device, the LEDs are also used to indicate the dimming level (e.g. if all LEDs are lighted up with blue color, the current dimming level is 99%, if only LED 0 is lighted up, the current dimming level is 0%). You can change the dimming levels via sliding up/down on the panel.



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5. Configuration Command Class

<u> </u>	: Coringaration Communa class										
7	6	5	4	3	2	1	0				
	Command Class = COMMAND_CLASS_CONFIGURATION										
	Command = CONFIGURATION_SET										
	Parameter Number										
Default	fault Reserved Size										
	Configuration Value 1(MSB)										
	Configuration Value 2										
			Configurati	on Value n(LSE	3)						

Parameter Number Definitions (8 bit):

Parameter	Description	Default Value	Size
Number			
Hex /			
Decimal			
0x15 (21)	Enable/disable the IR sensor of WallSwipe.	0x01010101	4
	(LSB)Value 1 = 0, disable the IR Sensor.		
	Value 1 = 1, enable the IR Sensor.		
	Value 2 = 0, Wave Option 1 is selected.		
	Value 2 = 1, Wave Option 2 is selected.		
	Value 3 = 0, disable the scene control functionality for		
	Left/Right wave.		
	Value 3 = 1, enable the scene control functionality for Left/Right		
	wave		
	Value 4 = 0, disable the scene control functionality for all wave		
	actions.		
	Value $4 = 1$, enable the scene control functionality for all wave		
	actions.		
0x40 (64)	Set the button color of WallSwipe.	0x0AFFFFFF	4
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
	Value 4= the color value of Blue.		
0x41 (65)	Set the LED indication color of WallSwipe when the gesture	0x32FFFFFF	4
	action is UP.		
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
	Value 4= the color value of Blue.		

0x42 (66)	Set the LED indication color of WallSwipe when the gesture	0x32FFFFFF	4
	action is Down.		
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
0.40.457	Value 4= the color value of Blue.	0.0055555	
0x43 (67)	Set the LED indication color of WallSwipe when the gesture action is Left.	0x32FFFFFF	4
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
	Value 4= the color value of Blue.		
0x44 (68)	Set the LED indication color of WallSwipe when the gesture action is Right.	0x32FFFFF	4
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
	Value 4= the color value of Blue.		
0x45 (69)	Set the LED indication color of WallSwipe when it is in Night	0x0AFF0000	4
- (,	light state.		
	Value 1= Brightness level (0x00-0x63).		
	Value 2= the color value of Red.		
	Value 3= the color value of Green.		
	Value 4= the color value of Blue.		
0x46 (70)	Set the LED indication state of WallSwipe when the output load	1	1
,	is OFF.		
	1= the LED indicates red color.		
	2= the LED indicates red color and blue color of historical		
	brightness level (note: if the historical brightness level is less		
	than 9%, it only indicates red color).		
	Note: Only Nano Dimmer supports this feature.		
0x47 (71)	Re-calibrate the sensitivity of WallSwipe.	-	1
,	Note: Set-only parameter.		
0x90 (144)	Get the connection state of WallSwipe	_	1
,	0 = disconnected.		
	1 = connected.		
	Note: this is a Get-only parameter.		
0xFB (251)	Enable/disable the button reset function of WallSwipe.	1	1
232 (23.)	0 = Disable.	-	
	1 = Enable.		