Module Information:

Name: RBI Single Zone Control v5b

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Summary: This module requires one instance of the RBI Single Zone Control Initialize Function v5b. The Zone Helper module reads in an XML file stored on the processor to setup the configuration of all of the lighting zones. This file will be read in automatically on a program reset. Some settings can only be edited from the XML file.

Inputs/Outputs/Parameters:

Inputs:

iliputs.	
lvl_in	True feedback of the current analog value of the
	zone. This must be defined in order for this
	module to work. This value cannot be the same
	signal as the IvI_fb output of the module.
[keypad_on]	Optional signal that can be used to tie a friendly
	zone on signal name to a keypad.
[keypad_off]	Optional signal that can be used to tie a friendly
	zone off signal name to a keypad.
[keypad_on/off]	Optional signal that can be used to tie a friendly
	zone toggle signal name to a keypad.
[keypad_raise]	Optional signal that can be used to tie a friendly
	zone raise signal name to a keypad.
[keypad_lower]	Optional signal that can be used to tie a friendly
	zone lower signal name to a keypad.
[relay_on_fb]	For a switched zone only, this should be tied to
	the relay on feedback. This signal will be used for
	preset setting.
zone_on	Pulse to turn this lighting zone on.
zone_off	Pulse to turn this lighting zone off.
zone_on/off	Pulse to toggle this lighting zone on or off.
zone_raise	Pulse to raise this zone.
zone_lower	Pulse to lower this zone.
room_raise_all	This signal should be tied to the raise all signal for
	the room where this zone is located. When
	pulsed, it will raise all zones at once. This signal
	will not raise this zone if it is currently off. To
	raise from off, set raise from off to true in the
	XML file. <raise_from_off>1</raise_from_off>
room_lower_all	This signal should be tied to the lower all signal
	for the room where this zone is located. When
	pulsed, it will lower all zones at once.

[find_me]	When latched high, this will toggle Ivl_out on and
	off so that a zone can be physically located by
	looking for flashing lights.
[fusion_offline_fb]	If using Fusion, this should be tied to the offline
	feedback device extender of the Fusion EISC.
[fusion_lvl_in]	If using Fusion, this should be tied to the level set
	signal on the Fusion EISC. This signal is buffered
	so that the lights won't shut off when the EISC
	connects.
[save_on_level]	Pulse to save the current level as the on level
	when zone_on or [keypad_on] is pulsed.
[save_off_level]	Pulse to save the current level as the off level
	when zone_off or [keypad_off] is pulsed.

Outputs:

lvl_out	The analog output used for setting lighting levels.
[keypad_on_fb]	Optional signal that can be used to tie a friendly
	zone on feedback name to a keypad.
[keypad_off_fb]	Optional signal that can be used to tie a friendly
	zone off feedback name to a keypad.
[keypad_raise/lower_fb]	Optional signal that indicates that the zone is
	currently being ramped.
[relay_off_fb]	For switched zones only, this indicates that the
	true feedback of the relay is currently off.
[zone_on_pulse]	For switched zones, this should be tied to the
	relay on input of the panel. This will fire if IvI_in is
	>= 1d.
[zone_off_pulse]	For switched zones, this should be tied to the
	relay off input of the panel. This will fire if IvI_in is
	< 1d.
[dali_raise]	For DALI zones, this should be tied to the group
	raise input of the DALI controller.
[dali_lower]	For DALI zones, this should be tied to the group
	lower input of the DALI controller.
zone_name\$	The friendly name of the zone, for use on the
	GUI.
Lvl_fb	The current level of the zone, for use on the GUI.
	This signal should not be the same as lvl_in.
zone_on_fb	Indicates that

dimmable_fb	Indicates that this zone is dimmable.
zone_used_fb	Indicates that this zone actually exists.
rgb_fb	Indicates that this is a color-changing, RGB zone.
harvested_fb	Indicates that this is a daylight harvested zone.
[harvest_enable_fb]	Indicates that daylight harvesting for this zone is
	enabled.
[harvest_disable_fb]	Indicates that daylight harvesting for this zone is
	disabled.
[dali_fb]	Indicates that this zone is DALI.
[raise_from_off_fb]	Indicates that this zone will raise from off when
	raising all zones in the room.
[ramping_fb]	Indicates that this zone is currently raising or
	lowering.
[slew_rate]	Indicates the time that it will take for this zone to
	turn on or off.
[ramp_time]	Indicates the time that it will take for this zone to
	raise all the way on, or lower all the way off.
zone_not_initialized_fb	This signal will oscillate if there is an error reading
	the XML file from the Single Zone Control
	Initialize Function v5b. It will also oscillate if this
	zone is not included in the XML file.
zone_initialized_fb	This will latch high if the room is found in the
	XML file when it is initialized by the Single Zone
	Control Initialize Function v5b.
[wattage]	Indicates the calculated wattage of this zone.
[fusion_lvl_fb]	If using Fusion, this should be tied to the level
	feedback signal on the Fusion EISC. This signal is
	sampled in order to not send too many values to
	Fusion at once.
[on_level_saved]	Indicates that the current zone level has been
	saved as its on level.
[off_level_saved]	Indicates that the current zone level has been
	saved as its off level.

Parameters:

zone_id	The ID of this zone. It needs to match xx in <zone< th=""></zone<>
	zoneID="xx"> in the XML file.