HELP FILE DOCUMENT

Manufacturer: Crestron
Model: DIN-1DIM4, DIN-1DIMU4
Device Type: Crestron Dimmers

CONTACT SUPPORT:

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Crestron Dimmer Controller
CATEGORY:	Lighting Dimmers
VERSION:	V1.0
SUMMARY:	This module provides easy control of a Crestron DIN-1DIM4 and DIN-1DIMU4 including sensor inputs controls • Handles input from Horizon Keypads, short press turns the light On or Off • Press and hold keypad input to dim the light up or down • Short press from keypad recalls previously dimmed value set by keypad • Discrete On/Off/Toggle inputs from other user interfaces like TSWs • Secondary On/Off/ inputs from other logic, like scheduled events • Handles occupancy sensor input and its timeout • Occupancy sensor Enable /Disable inputs • Night sensor level to avoid light being turned on to 100% at night • Night light feature which will set the light level to a fixed percentage • Different ramp times for keypad and discrete inputs
GENERAL NOTES:	This module handles the sensor timeout, it is important to set the timeout on the sensor device to a small value, like 0.5s. This module controls one channel of a DIN-1DIM4 or DIN-1DIMU4, to control the whole dimmer, you would need to use one module per channel
CRESTRON HARDWARE REQUIRED:	DIN-1DIM4 or DIN-1DIMU4

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SETUP OF CRESTRON HARDWARE:	As per DIN-1DIM4 or DIN-1DIMU4
VENDOR FIRMWARE:	As per DIN-1DIM4 or DIN-1DIMU4
VENDOR SETUP:	As per DIN-1DIM4 or DIN-1DIMU4
CABLE DIAGRAM:	N/A

CONTROL:

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Keypad_PS	D	Pulse to turn the light On/Off/Recall previously dimmed level. Press and hold to dim the light up or down. This input would typically be connected to a Crestron keypad.
Channel_On	D	Pulse to turn the channel On, this could come from an “On” button on a TSW
Channel_Off	D	Pulse to turn the channel Off, this could come from an “Off” button on a TSW
Channel_Toggle	D	Pulse to toggle the channel, this could come from a button on a TSW
Sec_On	D	Pulse to turn the channel On, this is used if you have other logic turning the light on e.g., a stepper for a scheduled scene
Sec_Off	D	Pulse to turn the channel Off, this is used if you have other logic turning the light off e.g., a stepper for a scheduled scene
Occupied_In	D	This would be connected to the occupied output of a Crestron occupancy sensor (read the general note section)
Sensor_Override_Tog	D	Pulse to enable or disable the occupancy sensor function
Enable_Sensor	D	Pulse to enable the occupancy sensor function
Disable_Sensor	D	Pulse to disable the occupancy sensor function
Enable_Night_Sensor_Level	D	When kept at logic high, the light will only turn on to the level specified by “Night_Sensor_Level” in module parameters if triggered by the Occupied_In input. This input will typically be connected to the Night output of an astronomical clock

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Enable_Night_Light_Mode	D	Pulse to turn the light on to the level specified in “Night_Light_Mode_Level” this will also disable the occupancy sensor
Disable_Night_Light_Mode	D	Pulse to deactivate the “Night_Light_Mode” , this will also enable the occupancy sensor

FEEDBACK:

Light_Level	A	Light Level output, this will be connected to the light level input of the dimmer
Light_Is_On	D	Indicates the light on this dimmer channel is On
Light_Is_Off	D	Indicates the light on this dimmer channel is Off
Sensor_Is_Disabled	D	Indicates the occupancy sensor is disabled
Sensor_Is_Enabled	D	Indicates the occupancy sensor is enabled
Serving_Timeout	D	Indicates the sensor is serving its timeout
In_Night_light_Mode	D	Indicates the channel is in Night Light Mode

PARAMETERS:

Keypad_Hold_Ramp_Rate	Ramp speed in seconds, this will determine how quick the light will dim up or down when using the Keypad_PS input
Keypad_Hold_Min	Minimum dimming value possible based on the light fitting used, you need to test your light with the dimmer to see what the lowest possible dimming value is e.g., 5000d Most light fittings will not show any illumination below 5000d and if you set this value below the possible dimming level of the light you are using, if the user dims the light down to that value, next keypad press will recall that which will not turn the light on.
Ramp_Rate	Ramp speed in seconds, this will determine how quick the light will dim up or down when using On/Off/Toggle inputs
Night_Sensor_level	Fixed value which will be used if the light is triggered via the Occupied_In input while the “Enable_Night_Sensor_level” is high e.g., 35000d
Night_Light_mode_Level	Fixed value for the Night_Light_Mode e.g., 15000d
Sensor_Timeout	Occupancy sensor timeout in seconds e.g., 600s

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TESTING:

OPS USED FOR TESTING:	Crestron 3 and 4 series processors
SIMPL WINDOWS USED FOR TESTING:	4.17
DEVICE DB USED FOR TESTING:	200.90
CRES DB USED FOR TESTING:	206.05
REVISION HISTORY:	V1.0

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