Partner: Somfy
Model: SDN 2.0
Device Type: Shades/Drapes

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Somfy SDN2.0 Motor Control v1.0
CATEGORY:	Shades/Drapes
VERSION:	1.0
SUMMARY:	This module will control a single Somfy shade/drape motor on the SDN2.0.
GENERAL NOTES:	This module will control a single Somfy motor on the SDN2.0. It does provide true feedback. There are two sets of control inputs on the module, three-button and two-button. The threeButton<Up/Down/Stop> inputs are to be pulsed. The up and down will start the motors moving in the desired direction. They will continue to move until either the motorsreach their limits or the stop input is pulsed. The twoButton<Up/Down> are press and hold inputs. Pressing up or down will cause the motors to start moving in the desired direction. They will continue to move until either the motors reach their limits or the up or down input is released. When the initialization string is received from the Somfy SDN2.0 Serial Queue module the Somfy SDN2.0 Motor Control module will respond with the motor address and then it will send the position request command to get the current position and preset. This module will also poll the Somfy for the current position and preset for a period of time after a control command is sent. This module must be used with the Somfy SDN2.0 Serial Queue module.
CRESTRON HARDWARE REQUIRED:	RS485 capable C2-COM-*
SETUP OF CRESTRON HARDWARE:	RS485 Baud: 4800 Parity: Odd Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	To get the address for the motor you must use the Somfy software. The address from the Somfy software is then entered exactly into the paramMotorAddress parameter field.
CABLE DIAGRAM:	Custom

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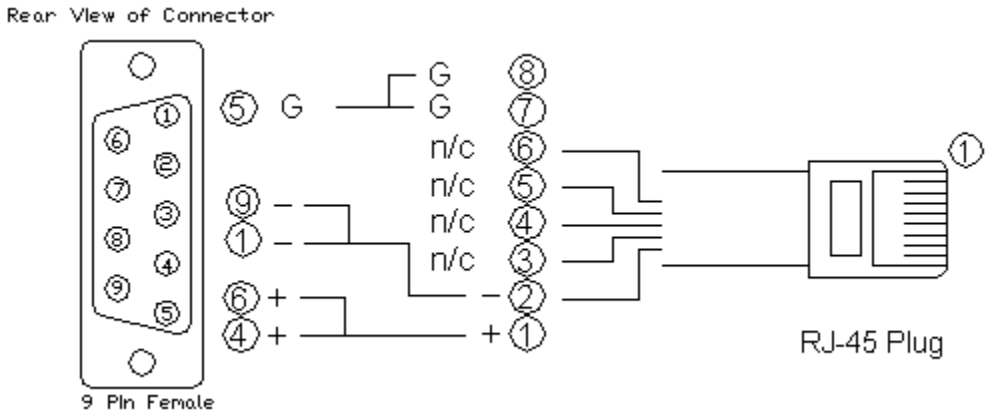

CONTROL:

threeButton<Up/Down>	D	Pulse to adjust the motors in the group. The motors will move in the desired direction until either they reach their limits or the threeButtonStop input is pulsed.
threeButtonStop	D	Pulse to stop the motors in the group.
twoButton<Up/Down>	D	Press and hold to adjust the motors in the group. The motors will move in the desired direction until either they reach their limits or the input is released.
preset<Up/Down>	D	Pulse to move the next preset up or down. Presets must be setup in the motor.
goToPercentDown	A	Analog input for the percent down to go to. This is intended to be driven from an Analog Init symbol. Enter the values 0% to 100% in the Analog Init symbol. 0% is full up, 100% is full down.
goToPreset	A	Analog input for the preset to go to. Presets must be setup in the motor. Valid range is 1d to 16d.
fromQueueModule	S	Serial signal to be routed from one of the toModules outputs on the Somfy SDN2.0 Serial Queue module.

FEEDBACK:

currentPosition	A	Analog output indicating the current position. The range is 0d to 65535d. 0 is fully opened and 65535 is fully closed.
currentPreset	A	Analog output indicating the currently selected preset. Valid values are 0d indicating no preset selected, and 1d to 16d.
curtainControllerPosition	A	Analog output indicating the inverted current position. This output is intended to be used with a Curtain Controller Smart Object on a touch screen. 0 is fully closed and 65535 is fully opened.

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toQueueModule	S	Serial signal to be routed to the fromModules input on the Somfy SDN2.0 Serial Queue module.

PARAMETERS:

paramCrestronAddress	S	Select the Crestron address from the dropdown list. The default value is \x80\x80\x80. This should work for most installations.
paramMotorAddress	S	Enter the motor SN. Enter the values as they appear on the motor.

TESTING:

OPS USED FOR TESTING:	PRO3: 1.501.0013
SIMPL WINDOWS USED FOR TESTING:	4.03.20
DEVICE DB USED FOR TESTING:	72.05.001.00
CRES DB USED FOR TESTING:	54.05.005.00
SYMBOL LIBRARY USED FOR TESTING:	983
SAMPLE PROGRAM:	Somfy SDN2.0 v1.0 Demo
REVISION HISTORY:	v1.0 – Initial Release

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