Manufacturer: Somfy Electronics
Model: SDN2.0
Device Type: Shades/Drape Controller

CONTACT SUPPORT:

COMPANY NAME:	Somfy Systems
SUPPORT CONTACT:	Tim Roberts
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NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Somfy SDN2.0 Group Control v1.2
CATEGORY:	Shades/Drapes
VERSION:	1.2
SUMMARY:	This module will control a group of Somfy shade/drape motors on the SDN2.0.
GENERAL NOTES:	This module will control a group of Somfy motors on the SDN2.0. It does not provide 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. This module must be used with the Somfy SDN2.0 Serial Queue module.
CRESTRON HARDWARE REQUIRED:	RS485 capable Crestron COM Port

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SETUP OF CRESTRON HARDWARE:	RS485 Baud: 4800 Parity: Odd Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Somfy motors must be assigned to a group and limits must be set prior to use with Crestron
VENDOR SETUP:	Retrieve or set the group ID via the SDN Motor Configuration Software. Use Somfy's SDN Motor Configuration software tool and a USB to RS485 adapter, 9-Pin cable to RJ45, Somfy Data Hub, and POE injector to power the Somfy Data Bus. Recommended USB to RS-485 adapter is from usconverters.com model XS890 and a DB9F - RJ45 adapter Example 1: 000001 Example 2: 123456
CABLE DIAGRAM:	On a 9-Pin Crestron Port Using 568B Pattern RJ-45: - RJ45 Pin 1 Orange/White goes to Pin 2 on the 9-Pin Connector - RJ45 Pin 2 Orange goes to Pin 3 on the 9-Pin Connector - RJ45 Pin 7 & 8 Brown & Brown/White goes to Pins 4 & 6 on the 9-Pin Connector On a Phoenix style 3-Series RS-485 Port Using 568B Pattern RJ-45: - RJ45 Pin 1 Orange/White goes to RTS - RJ45 Pin 2 Orange goes to RX - RJ45 Pin 7 & 8 Orange goes to Pin Gnd

CONTROL:

sdnConfigTool	D	Hold High If Group ID was Supplied From the "SDNConfig Tool" v1.0.13+
sndMotorConfigSoftware	D	Hold High If Group ID was Supplied From the "SDN Motor Configuration Software"
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.

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preset<Up/Down>	D	Pulse to move the next preset up or down. Presets must be setup in the motor. Preset is also known as IP's or Intermediate Position
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. Preset is also known as IP's or Intermediate Position
goToPreset	A	Analog input for the preset to go to. Presets must be setup in the motor. Valid range is 1d to 16d. Preset is also known as IP's or Intermediate Position

FEEDBACK:

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

PARAMETERS

paramGroupNumber	S	Enter the group number. If the group number is less than six characters long enter leading zeroes. For example for group number 1 enter 000001.

TESTING:

OPS USED FOR TESTING:	CP3 V1.503.3568.26236 Not Tested On 2-Series
SIMPL WINDOWS USED FOR TESTING:	4.11.06
DEVICE DB USED FOR TESTING:	114.00.001.00
CRES DB USED FOR TESTING:	88.06.004.00
SYMBOL LIBRARY USED FOR TESTING:	1101

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SAMPLE PROGRAM:	Somfy SDN1.0 v1.2 Demo
REVISION HISTORY:	V1.2 Added option for choosing which Somfy software the Group IDs were obtained from, since the two Somfy software will give different IDs