HELP FILE DOCUMENT

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

CONTACT SUPPORT:

COMPANY NAME:	Somfy Systems
SUPPORT CONTACT:	Tim Roberts
EMAIL ADDRESS:	tim@timslinks.com

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Somfy SDN2.0 Motor Control v1.2
CATEGORY:	Shades/Drapes
VERSION:	1.2
SUMMARY:	This module handles all communication between the Crestron and the Somfy SDN2.0.
GENERAL NOTES:	This module handles all communication between Crestron and the Somfy SDN2.0. On boot up, this module will check the toModules output to see how many modules are connected. Therefore, you should not skip toModules outputs and you should not expand the toModules outputs to more than the number of motor control modules you are actually using. If you skip toModules outputs or you expand the toModules outputs to more than the number of motor control modules you are using the initialization process will fail and no commands will be sent to the Somfy device. This module will take the response received from the Somfy and route them to the proper motor control module. This module will queue all commands to be sent to the Somfy. You must pulse the initialize input on the module in order for the module to be able to properly route the responses from the Somfy. If the initComplete does not go high there was a problem with the initialization process. If commands are not being sent to the Somfy, check the initComplete output. This module is intended to be used by the Somfy SDN2.0 Motor Control v1.2 module.

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CRESTRON HARDWARE REQUIRED:	RS485 capable Crestron COM Port
SETUP OF CRESTRON HARDWARE:	RS485 Baud: 4800 Parity: Odd Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	Limits must be set in the Somfy motor(s), ID(s), preset(s), and group(s), are all configured via Somfy software like SDNConfig tool or SDN motor configuration software. You'll need a USB to RS485 adapter, 9-Pin cable to RJ45, Somfy Data Hub, and POE injector to power the Somfy Data Bus to effectively use the Somfy software. Recommended USB to RS-485 adapter is from usconverters.com model XS890 and a DB9F - RJ45 adapter
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 Gnd

CONTROL:

initialize	D	Pulse to initialize the modules. You should NOT place a one (1) on this input as it may cause unexpected results.
fromDevice	S	Serial signal to be routed from a 2-way RS485 capable serial com port.
fromModule	S	Serial signal to be routed from one of the toModules outputs on the Somfy SDN2.0 Motor Control modules.

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FEEDBACK:

initComplete	D	High to indicate that the initialization completed successfully. If this does not go high then you need to check to make sure that you haven't skipped any toModules outputs and that you haven't expanded the toModules output to more than the number of motor control modules you are using.
toDevice	S	Serial signal to be routed to a 2-way RS485 enabled serial com port.
toModules	S	Serial signal to be routed to the fromQueueModule input of ONE Somfy ISDN2.0 Motor Control module.

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
SAMPLE PROGRAM:	Somfy SDN1.0 v1.2 Demo
REVISION HISTORY:	V1.2 "House Keeping" Release

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