DecoFlex SDN Keypad, Group Control

Item #: 1871497 (6-Button) • Item #: 1871496 (8-Button)



Overview:

The DecoFlex SDN Keypad with Group Control provides a plug-in, in-wall user interface for stand-alone Somfy Digital Network's shading systems. Keypads provide users a familiar way to adjust their environment for personal comfort. Each keypad communicates directly with intelligent motors in the system without the need for a centralized system controller, distributing intelligence across the network and ensuring reliable operation.

Every keypad uses a priority-based command structure which allows multiple keypads to have different levels of authority. DecoFlex Keypad configuration is managed through the Set pro by Somfy configuration software. DecoFlex SDN Keypads can be configured to manage multiple motors and groups per keypad, or one motor and group per keypad. Multiple LEDs make it easy to identify which group is being selected and controlled at one time.

Available in both 6-Button and 8-Button configurations, the DecoFlex SDN Keypad with Group Control comes with default engraved buttons (shown above). Custom engraved buttons are available. Each keypad also includes eight dry contact inputs on the reverse, regardless of the number of buttons on the front. All contacts, even those not associated to a specific front button, are programmed to output SDN commands to control groups of intelligent motors on the SDN network.

Somfy Digital Network System Overview:

Somfy Digital Network™ (SDN) is Somfy's intelligent wired shading network. An SDN system is comprised of bus distribution devices that create a network for user interfaces, motorized applications, and integration devices. SDN is scalable and suitable for both small and large projects. The same components are used whether an SDN system remains stand-alone or integrated into third-party automation systems.

Technical specifications:

- Input: SDN Bus Power (24V DC)
- Max Power Consumption: 140 mW supplied by SDN bus or motor power
- Material:
  - Face plate and buttons: Polycarbonate
  - Back housing: Fire retardent ABS
- Mounting: Single or multiple gang
- Dimensions (without wall plate): 1.44 in. L x 1.5 in. W x 4.06 in. H (3.64cm L x 3.81cm W x 10.32cm H)
- Face plate dimensions: Standard Decora
- Operating temperature range: Ambient temperature
- Indoor use only
- Shipping weight: Actual weight: 0.25 - 0.3 lbs.

Features summary:

- Directly control intelligent motors either by group, facade, or an entire building
- Each button can be programmed with different commands for Press, Release, Hold, and Sequential
- Set intermediate position via button press
- Can control up to five groups with 8-button keypad (Three groups with 6-button keypad)
- Keypad configurations can be exported and backed up
- Eight dry contact inputs for third-party integration
- Custom engraved buttons available
- Standard Decora size
- Includes wall plate and dry contact terminal blocks
- LED indicators signal which channel is selected

What's in the box:

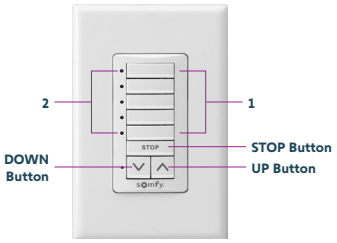
- Keypad
- Wall plate with screws
- 1" screws (2)

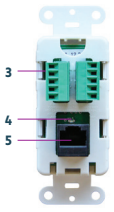
Available color:

- 6-Button, White #1871497
- 8-Button, White #1871496

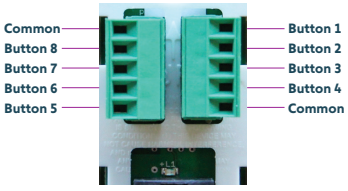
Connections and indicators:

	Element	Function
1	**Buttons**	Press for motor control. Can be programmed with functions for Press, Release, Hold, and Sequential
2	**Front LEDs**	Group selection Amber - Solid in SDN mode and blinking in group mode
3	**Dry Contact Inputs**	Triggers programmed button function
4	**Power LED**	Blinking red - SDN power
5	**SDN Connection**	Power and data connection to SDN bus



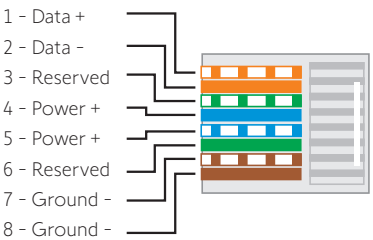


Detail of Inputs

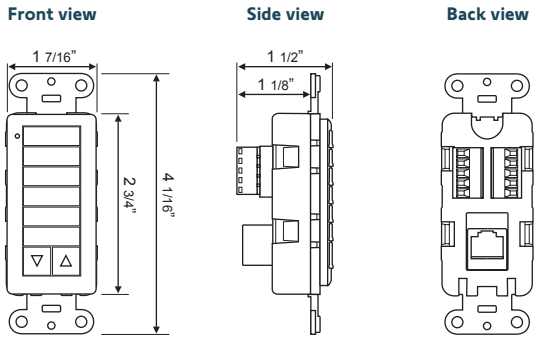


Cable Pinouts:

SDN Pinout
ANSI/TIA/EIA 568-B Standard



Dimensions:



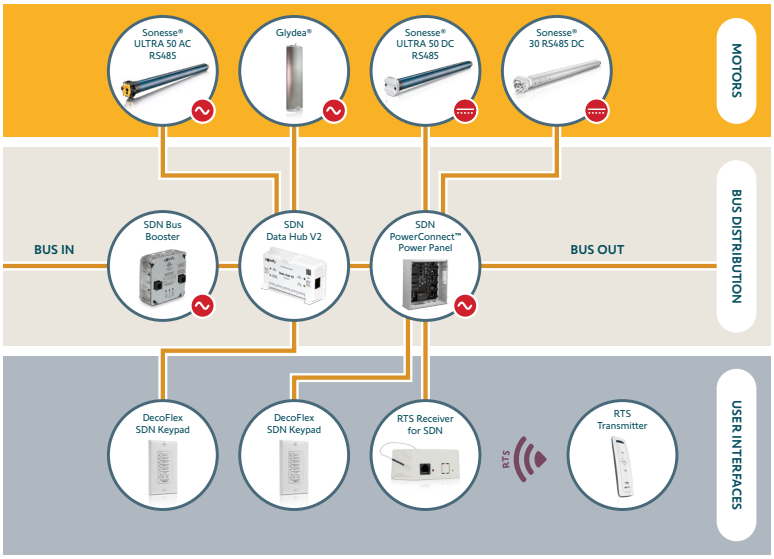
NOTE: Allow for strain relief in junction box

Best wiring practices:

The diagrams to the right are meant for illustrative purposes to show the connections from product to product. This device could be used in other configurations than shown. For specification information on individual products, see related product information. Follow all SDN wiring standards for distance limitations.

- Keypad connects to any SDN Device Port
- Keypads are configured using the latest version of the Set pro by Somfy configuration software

To use the dry contact inputs, each connection requires two conductors (supporting up to 14 AWG) from the third-party system. One attaches to the corresponding button input, and the other attaches to the Common pin on the corresponding termination block. All eight inputs are available regardless of 6- or 8-button configuration.



Keypad configuration:

The DecoFlex SDN Keypad with Group Control has eight fully programmable buttons which can be configured to control any motor or group through the Set pro by Somfy configuration software. Once a keypad is fully configured, all of the settings can be copied to another keypad on the project.

Configuration Features:

- All buttons can be configured with different commands for Press, Release, and Hold, which means each button can perform up to three motor functions
- Any button can be configured to control any individual motor or motor group
- Keypads are addressable, useful for later configuration over the SDN bus
- 255 Keypad command priority levels
- Keypad can be discovered via Scan Keypad by pressing button 7 and 8 (UP and DOWN) together

Available Commands:

- Go to upper/lower limit
- Go to specific intermediate position
- Go to absolute position
- Go to a percentage
- Lock motor at a priority level
- Cycle through specific commands on one button
- Momentary jog up or down by millisecond or number of pulses
- Lock the motor at a limit, intermediate position, or current position
- Set intermediate position at current shade position
- Unlock
- Stop

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