DecoFlex SDN Keypad

Item #: 1871479 (6-Button, White) • Item #: 1871472 (8-Button, White)
Item #: 1871495 (6-Button, Black) • Item #: 1871494 (8-Button, Black)



Overview:

The DecoFlex SDN Keypad is a control that provides a hard-wired, in-wall user interface for stand-alone Somfy Digital Network™ shading systems. Keypads provide users a familiar way to adjust the 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 SDN Keypad configuration is managed through the Set pro by Somfy configuration software. Keypads can be configured to manage multiple motors and groups per keypad, or one motor and group per keypad.

Available in both 6-Button and 8-Button configurations, the DecoFlex SDN Keypad 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 intelligent motors on the 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, integrated into third-party automation systems, or with Somfy's animeo® IP automated total solar management system.

Technical specifications:

- Input: 24V DC
- Max Power Consumption: 140 mW supplied by SDN bus or motor power
- Materials:
  - Face plate and buttons: Polycarbonate
  - Back housing: Fire retardent ABS
- Mounting: Single 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
- Shipping weight: Actual weight: 0.25 - 0.3 lbs.

Features summary:

- Directly control intelligent motors either individually, by group, facade, or an entire building
- Each button can be programmed with different commands for Press, Release, and Hold
- Set intermediate position at current shade position via button press
- Keypad configurations can be exported and backed up
- Dry contact inputs
- Custom engraved buttons available
- Standard Decora size
- Includes wall plate and dry contact terminal blocks

What's in the box:

- DecoFlex SDN Keypad
- Face plate with screws
- 1" screws (2)

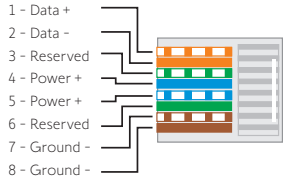
Optional colors:

- 6-Button, White #1871472
- 6-Button, Black #1871495
- 8-Button, White #1871479
- 8-Button, Black #1871494

NOTE: Special lead times may apply

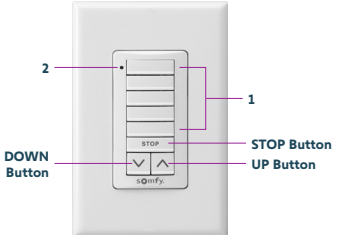
Cable Pinouts:

SDN Cable Pinout (RJ45 connector)
ANSI/TIA/EIA 568-B Standard

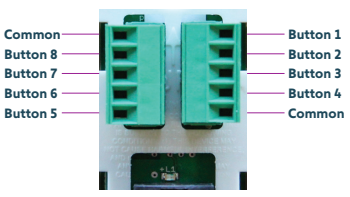


Connections and indicators:

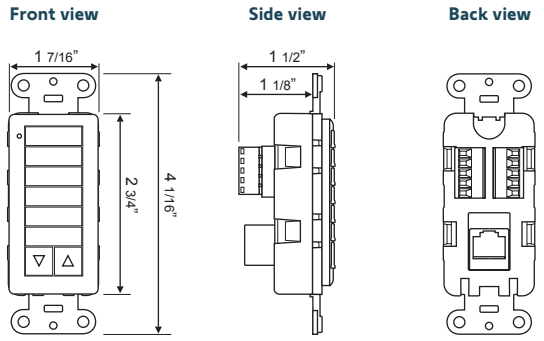
	Element	Function
1	**Buttons**	Press for control of individual motors, groups of motors, facades, or the entire building
2	**Front LED**	Blinking amber - SDN signal transmission
3	**Dry Contact Inputs**	Triggers programmed button function
4	**Status LED**	Blinking red - SDN power
5	**SDN Connection**	Power and data connection to SDN bus



Detail of Inputs



Dimensions:

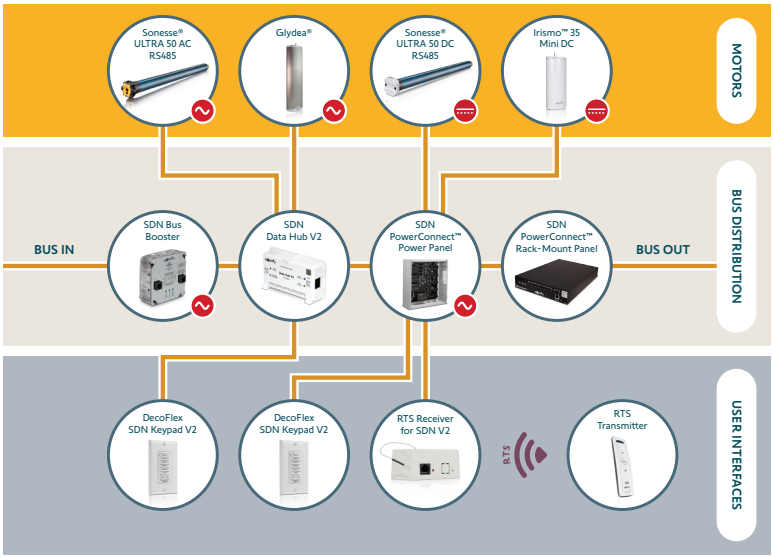


Dry Contact integration:

Every keypad has eight dry contact inputs, providing a simple method of integration with third-party automation systems. Each input corresponds to a front button on the keypad; when a dry contact is closed the button is "pushed," sending the same SDN command as if the user were physically pushing a button. Connecting to a keypad is easy using the included 5-pin termination blocks. 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.

Best wiring practices:

The DecoFlex SDN Keypad has a single SDN connection which is utilized for both communication and power. Connecting the keypad to the SDN bus is easy using any SDN Data Hub as any free port can support a keypad. It is recommended that wires connecting the keypad to the SDN bus are no more than 200 ft.



Keypad configuration:

The DecoFlex SDN Keypad 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 3 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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