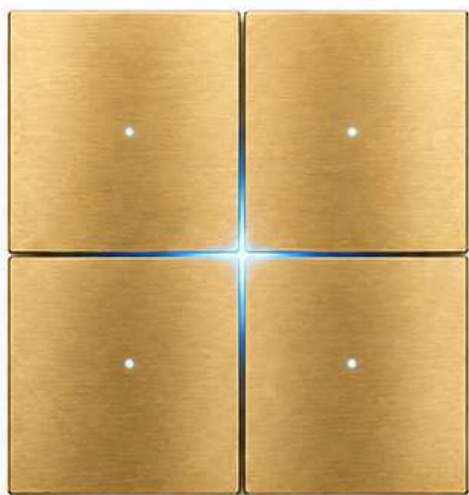


Smart Keypad Switch

Shared faceplate platform. Different AC and DC back units.

Classic Metal and Crystal Glass faceplates are built on the same mechanical platform, ensuring consistent fit and installation. They are paired with AC or DC back units that provide different electrical functions.



CLASSIC METAL

Fixed 4-button layout



CRYSTAL GLASS

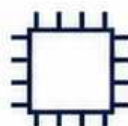
Predefined 1 to 5 touch layouts



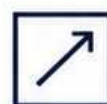
Integrated
temperature sensor



Selectable
temperature source



Firmware update
over CAN-BUS

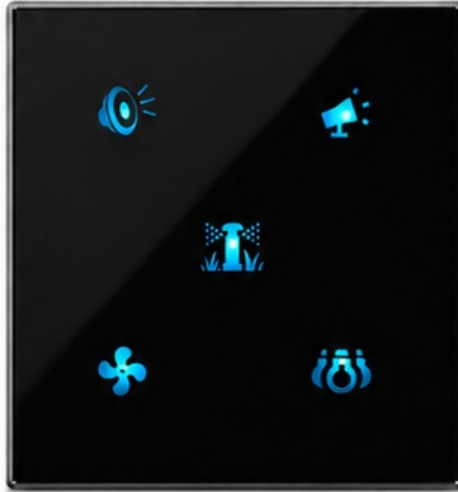
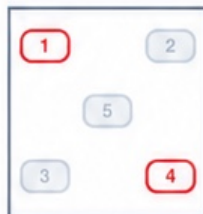
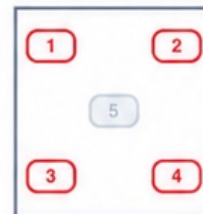
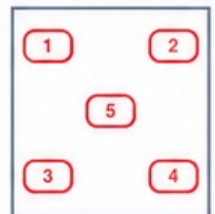


Shared
86 x 86 mm faceplate

GLASS FACEPLATE OPTIONS

Predefined positions by button count.

Crystal glass supports predefined 1 to 5 touch layouts. Metal faceplates always use the fixed 4-button arrangement.

**1 BUTTON****2 BUTTONS****3 BUTTONS****4 BUTTONS****5 BUTTONS****Layout summary**

1->5 | 2->1+4 | 3->1+5+4 | 4->1+2+3+4 | 5->1+2+3+4+5

Important notes

- Glass positions are predefined and should not be mechanically reassigned.
- The center position in the 5-button layout is a logical CAN/scene input; it does not create a fifth relay output.
- Default icons are supplied with the product.
- For alternative icons, request the SmartAPEX icon-selection sheet before ordering.
- Metal faceplates always use the fixed 4-button arrangement.

INSTALLATION

Prepare the faceplate and fit it correctly.

Isolate power before wiring, servicing or changing the faceplate. Follow the exact AC or DC wiring page.

1

Select AC or DC back unit

The mechanical frame is shared; the electrical board and pinout are different.

2

Wire the back unit

Follow the exact terminal diagram for the selected version.

3

Choose the glass layout

Use one of the predefined button-count maps on page 2.

4

Fit icons, blanks and diffusers

Active: icon. Unused: black blank. Press the diffuser until it clicks.

5

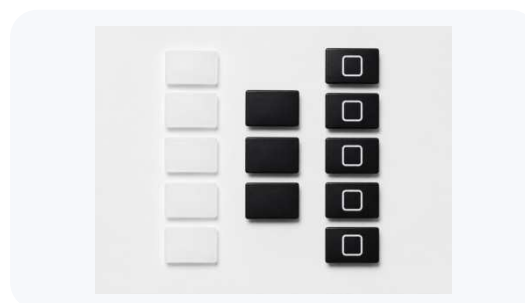
Attach the faceplate

Keep it parallel to the wall and press or release only at the corners.

6

Power-cycle once

After final assembly, switch power off and on once to establish the capacitive baseline.

GLASS FACEPLATE KIT**Icons, blanks and diffusers.**

- 5 diffusers
- 5 default icon inserts
- 4 black blanks

FACEPLATE REMOVAL**Push / release at the corners.**

- Keep the faceplate parallel to the wall.
- Do not insert a tool against the visible edge.
- Do not twist or flex the faceplate.

FUNCTIONS AND SPECIFICATIONS

Shared intelligence. Different electrical I/O.

All SmartAPEX CAN keypads include capacitive buttons, an onboard temperature sensor and firmware update over CAN-BUS.

Integrated temperature sensor

Onboard room-temperature monitoring on every CAN keypad.

Selectable temperature source

Use onboard sensing or a compatible external source by configuration.

Firmware update over CAN-BUS

Update through a compatible SmartAPEX CAN controller or service tool.

Short and long press

Separate project actions may be assigned to each press type.

Glass center position

Logical CAN/scene input only; not a fifth local relay output.

Curtain motor safety

Use interlock and break-before-make. Never energize both directions.

BACK-UNIT SPECIFICATIONS

AC VERSION

Supply	100-240 VAC, 50/60 Hz
Outputs	4 relay-switched live outputs L1-L4
Per-channel	2A resistive continuous maximum
Combined	8A continuous across all outputs
Protection	Common output supply path protected by internal 10A fuse
LED loads	Derate according to driver inrush current

DC VERSION

Supply	12-24 VDC, approximately 100 mA
Digital inputs	DI1 and DI2 for dry-contact sensors
Relay outputs	None
CAN-BUS	H and L terminals
External input	G = GND; I = sensor/probe input
Probe options	10K NTC or compatible IR probe

Temperature note: Installation conditions may require a configurable temperature offset.

AC VERSION WIRING

Lighting, curtain, CAN-BUS and external NTC.

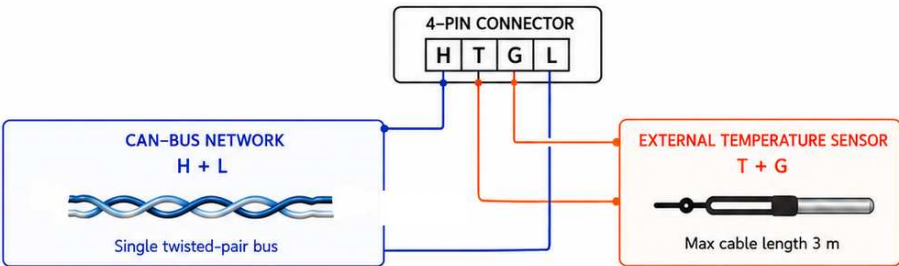
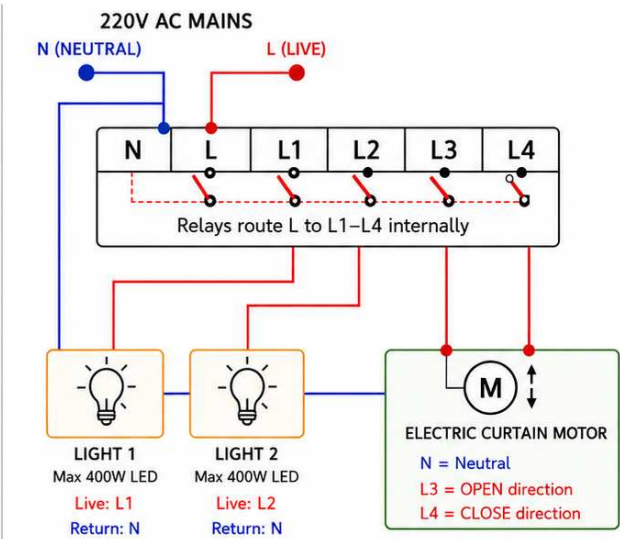
Use the product terminals exactly as shown. Neutral returns directly to the loads; L is switched internally to L1-L4.

SMARTAPEX SMART KEYPAD SWITCH – AC VERSION

Wiring Diagram (Corrected)



- AC MODEL LABEL DETAILS
- N = Neutral (main input)
 - L = Live input (relays route to L1-L4 internally)



WIRING SUMMARY	
	LIGHT 1 Live from L1, return N
	LIGHT 2 Live from L2, return N
	CURTAIN MOTOR Neutral N L3 = OPEN direction L4 = CLOSE direction
	CAN-BUS NETWORK H + L Single twisted-pair bus
	EXTERNAL TEMPERATURE SENSOR T + G Max cable length 3 m

WARNING / NOTE: Concept wiring diagram – verify local electrical codes and motor interlock configuration before installation.

Published system limits

Maximum continuous output current: 2A resistive per channel. Maximum combined continuous output current: 8A across all four outputs. The common output path is protected by an internal 10A fuse.

LED and capacitive loads require derating according to driver inrush current. Curtain direction outputs must use interlock and break-before-make.

External temperature sensor: NTC10K on T/G, maximum cable length 3 m. H/L form the single twisted-pair CAN-BUS connection.

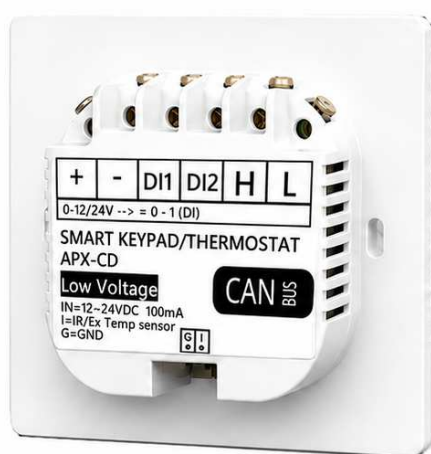
DC VERSION WIRING

12-24 VDC, digital inputs, CAN-BUS and probe.

DI1 and DI2 accept dry-contact inputs. H/L are the CAN-BUS pair. G/I accept an external 10K NTC or compatible IR probe.

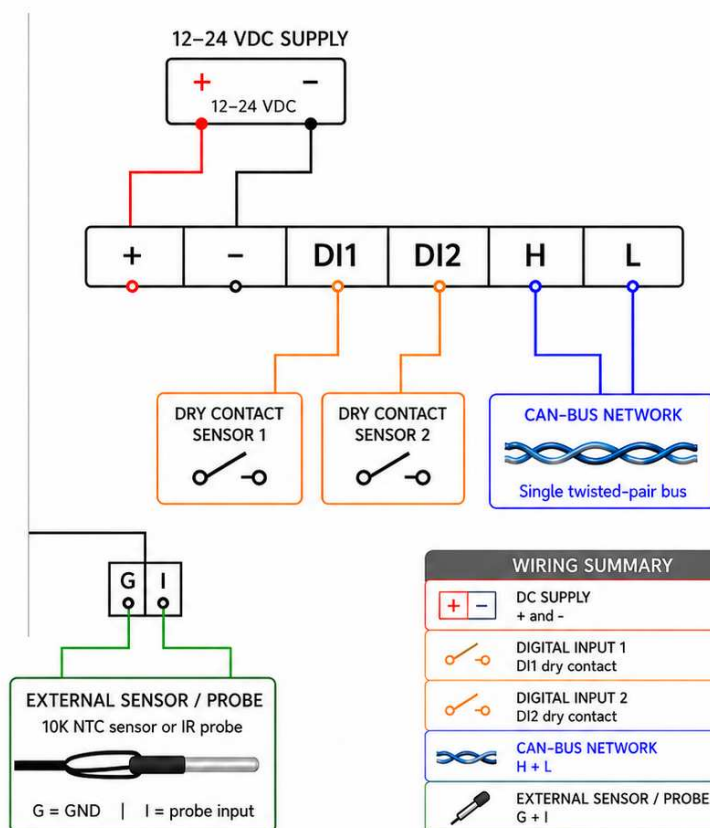
SMARTAPEX SMART KEYPAD / THERMOSTAT – DC VERSION

Wiring Diagram (Corrected)



DC MODEL LABEL DETAILS

- + / - = 12–24 VDC power input
- DI1 / DI2 = digital inputs for dry contact sensors
- H / L = CAN-BUS connection
- G / I = external 10K NTC sensor or IR probe



WARNING / NOTE: Concept wiring diagram — verify local electrical codes and sensor compatibility before installation.

DC version summary

12-24 VDC supply, approximately 100 mA. DI1/DI2 are dry-contact inputs. H/L are CAN-BUS. G = GND and I = external sensor/probe input. The DC back unit has no local relay outputs.

Supported external probe: 10K NTC temperature sensor or compatible IR probe.