

Xelent Series Button Smart Panel

Datasheet



MPBXL-4/6/8B-BP.18



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Before using this product, please read this datasheet carefully and keep it properly!

Document Version: C

◆◆ Overview

Xelent Series 4/6/8 Buttons Smart Panel, with mechanical buttons, supports a variety of button modes and button control types. It can achieve basic control functions such as switch, dimming, colour temperature, RGB control, curtain, scene, etc. It also has a built-in temperature sensor to detect the local temperature and upload it to the Buspro cable; each group of buttons can be customized with laser engraving, with corresponding RGB indicator lights are designed on the side of each button. The colour and brightness of button indicators can be customized through HDL commissioning software. Xelent Series panels have plastic and metal versions. Their excellent performance and wide range of application scenarios make them an ideal choice for modern home intelligent design solutions.

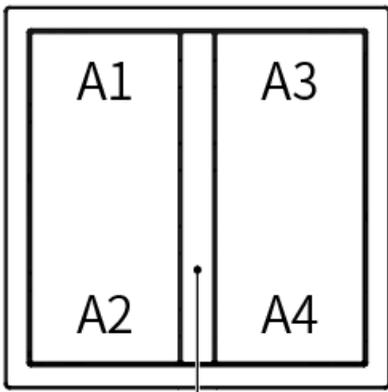
Product name	Model No.
Xelent Series 4 Buttons Smart Panel	MPBXL-4B-BP.18
Xelent Series 6 Buttons Smart Panel	MPBXL-6B-BP.18
Xelent Series 8 Buttons Smart Panel	MPBXL-8B-BP.18

Main functions:

- Lighting control: switch, dimming, colour temperature, RGB
- Curtain control: support curtain opening, closing, and stopping percentage control
- Scene control: support one-button scene control
- Built-in temperature sensor: support sending local temperature value to the bus for scene and automation control condition input.
- RGB LED indication function: support customizing the brightness and colour of the button indicator light.
- Button locking function: support panel button locking function to prevent outsiders from manually controlling the panel or children from accidentally touching it.
- Proximity sensing function: support automatically sleep of the button indicator, the human body approaches to wake up the indicator.
- Button text laser engraving customization: support custom button laser engraving, according to user needs for text size and content engraving, making it easy to identify the control target of the button

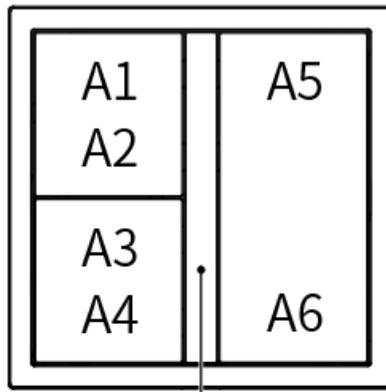
◆◆ Appearance

Xelent Series buttons smart panels include: 4/6/8 buttons panel, the front view of the panel and the button serial numbers are as follows:



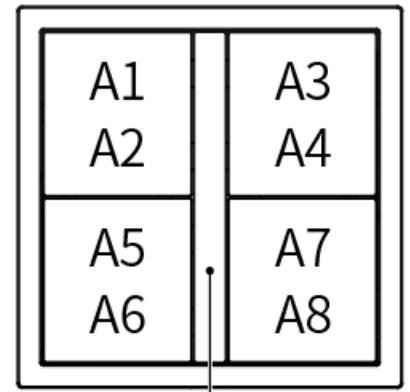
Proximity sensor

Xelent Series 4 Buttons Smart Panel



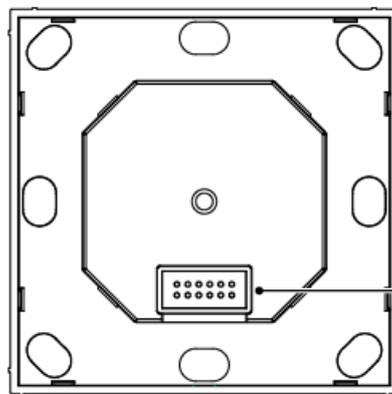
Proximity sensor

Xelent Series 6 Buttons Smart Panel



Proximity sensor

Xelent Series 8 Buttons Smart Panel



Power/communication interface

Figure 1

Xelent Series panels can be configured for use with more types of key panels to meet diverse application scenarios via the debugging software.

4/6/8 buttons panel, Thermostat Panel



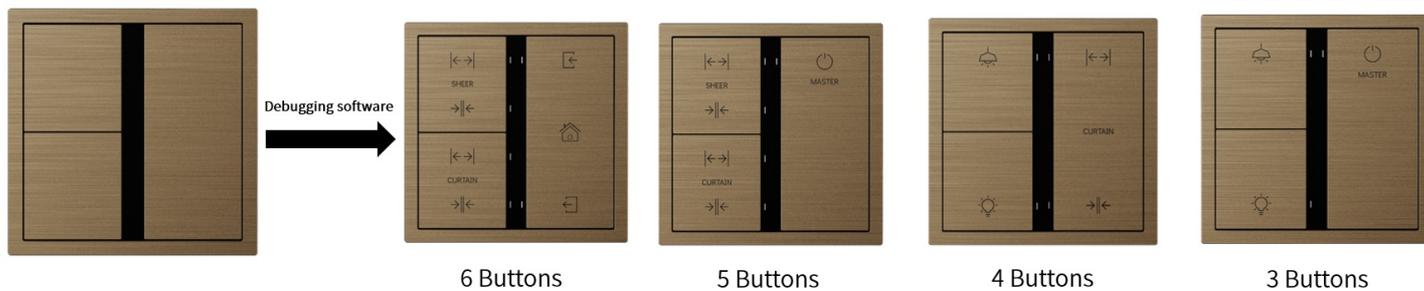
Debugging software



2/3/5 buttons panel



Example 1:



In actual projects, 4 Buttons Panel usually have various usage requirements, and all of these requirements can be met.

Example 2:



Figure 2

◆◆ Technical Data

Item	Parameter
Input	4 Buttons: $\leq 101\text{mA}/5\text{V DC}$ 6 Buttons: $\leq 120\text{mA}/5\text{V DC}$ 8 Buttons: $\leq 144\text{mA}/5\text{V DC}$
Power	4 Buttons: $\leq 21\text{mA}/24\text{V DC}$ 6 Buttons: $\leq 25\text{mA}/24\text{V DC}$ 8 Buttons: $\leq 30\text{mA}/24\text{V DC}$
Communication protocol	Buspro
Cable diameter of Buspro terminal	0.6-0.8mm
Working temperature	$-5^{\circ}\text{C}\sim 45^{\circ}\text{C}$
Working relative humidity	$\leq 90\%\text{RH}$, non-condensed
Storage temperature	$-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$
Storage relative humidity	$\leq 93\%\text{RH}$

◆◆ Specifications

Item	Parameter
Dimensions (W X H X D)	81.3×81.3×9(mm) (Not including power interface)
Net weight	PC: 4 Buttons: 59.4g 6 Buttons: 59.6g 8 Buttons: 59.1g Metal : 4 Buttons: 74.3g 6 Buttons: 74.5g 8 Buttons: 74.3g
Housing material	PC/Aluminum alloy
Installation	European standard wall box/ American standard wall box/ Swiss standard wall box
IP degree (compliant with EN 60529)	IP20

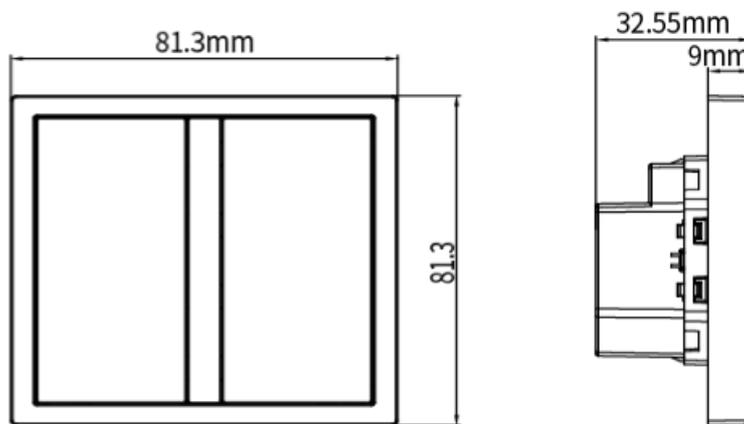


Figure 3

◆◆ Safety Precaution

Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.

Warning:

- Installation and commissioning of this equipment must be carried out by us or by an organization appointed by us. The

planning and construction of the electrical connection of this equipment must comply with the relevant local safety standards and regulations.

- Any consequences caused by failure to install and wire according to this instruction are not related to our company.
- Please refer all maintenance work to our after-sales department or designated organization, the warranty of this product does not apply to the failure caused by the user's disassembly of the product.

Caution:

- Before performing any installation or disassembly procedures, any maintenance or cleaning procedures on the device, it is crucial to disconnect the device from all voltage sources. This step is necessary to ensure the safety of the technician and prevent any potential damage to the device.
- It is a **MUST** to install the device with wall box.
- Do not use corrosive liquid to wipe the device body, especially the interface, so to avoid damage to the device.
- Prior to performing maintenance or cleaning on the device, disconnect the device from all voltage sources, to avoid electric leakage and electric shock.

◆◆ Wiring

- The device can be used in conjunction with Buspro power supply interface.
- For Buspro connection, a hand-in-hand connection is recommended. Please wire according to HDL standards: +24V, GND, D- and D+.

Buspro Panel Power Interface wiring:

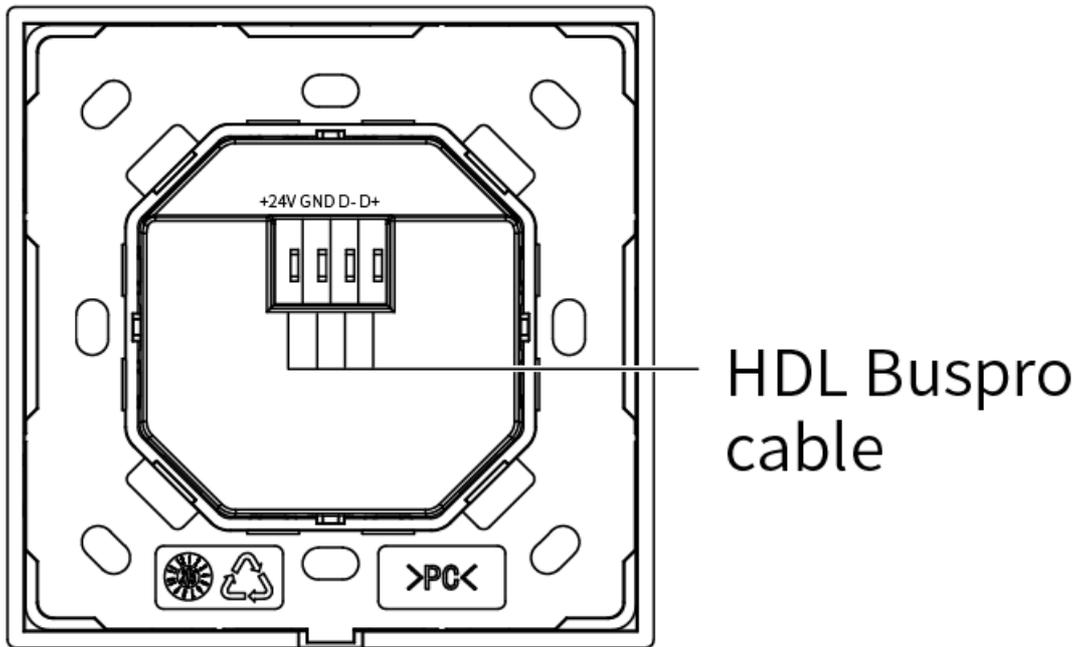


Figure 4

◆◆ Installation

- **Warning:** Before installation, please cut off the power supply, it is strictly prohibited to operate with electricity.

Step 1. Install the wall box (the depth of wall box should not be less than 45mm) in the wall and lead out Buspro cable .

Connect the cables, and pay attention to safe and reliable wiring.

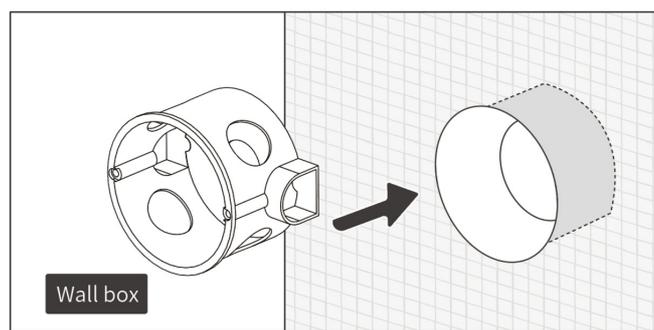


Figure 5

Step 2. Insert the power interface into the frame.

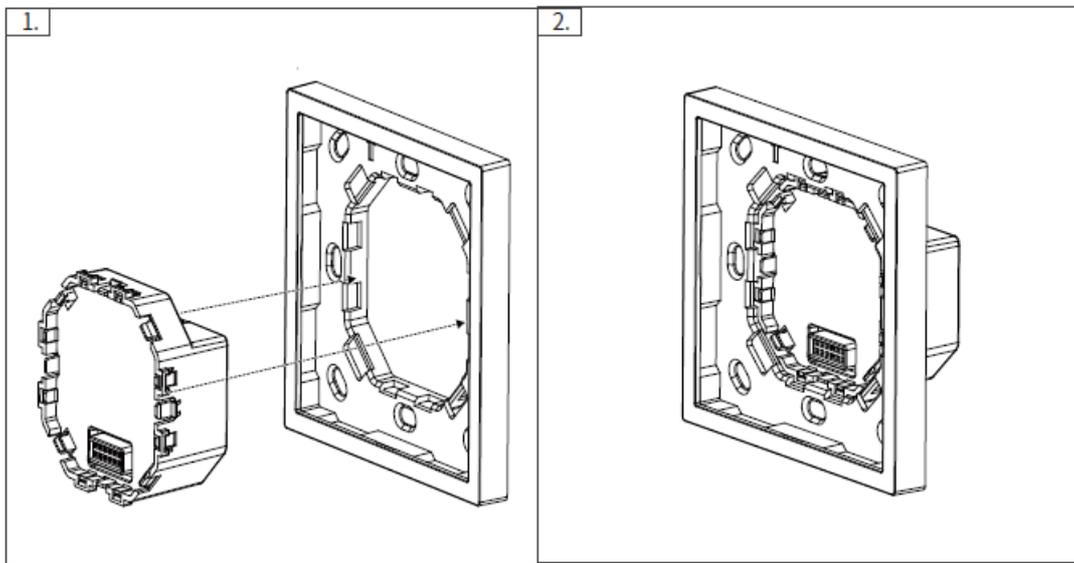


Figure 6

Step 3. Use screws to fix the power interface in the wall box.

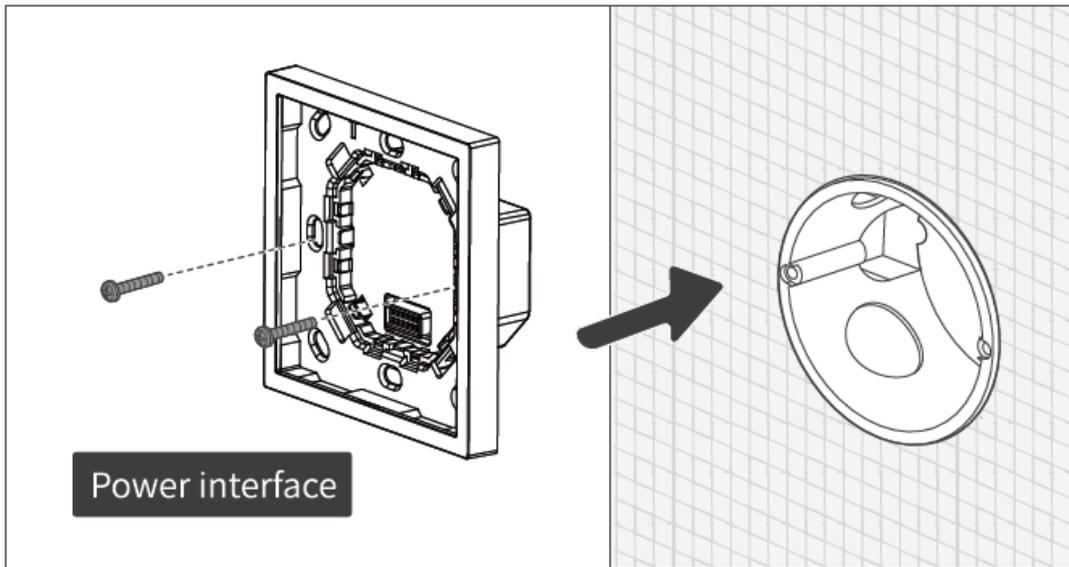


Figure 7

Step 4. Align the panel pins with the interface holes, press gently and install on the interface.

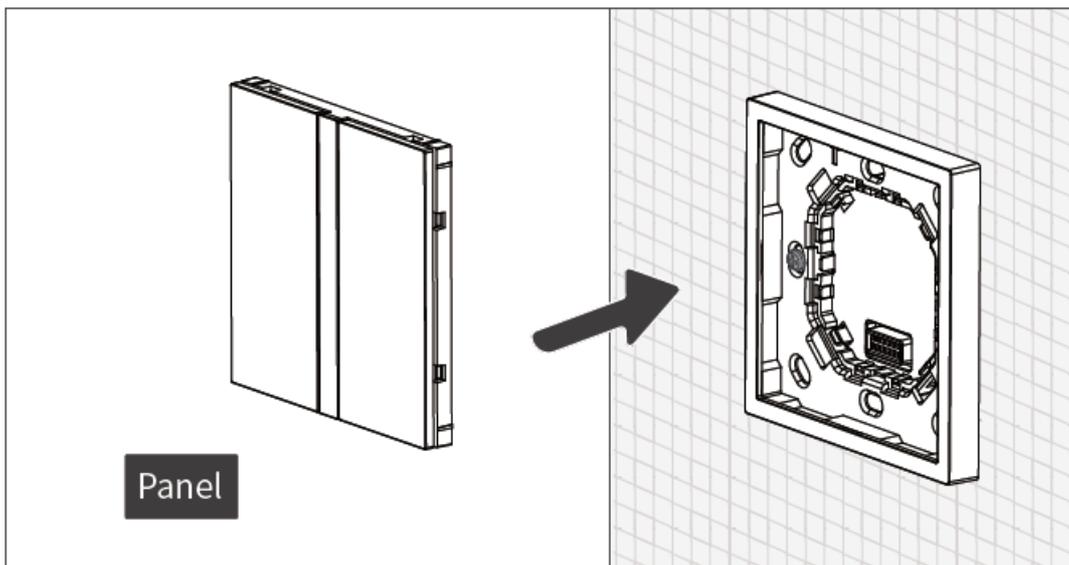


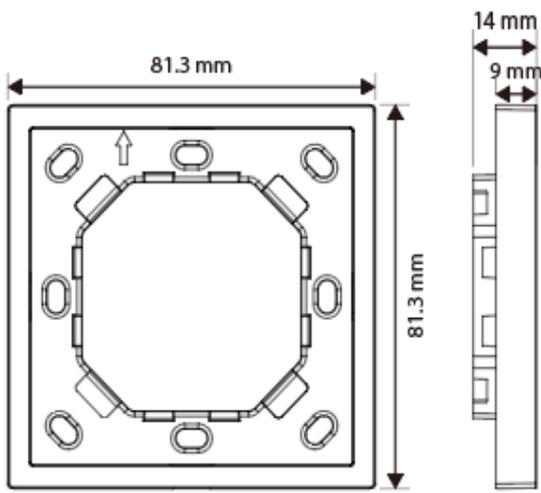
Figure 8

Multi-gang installation:

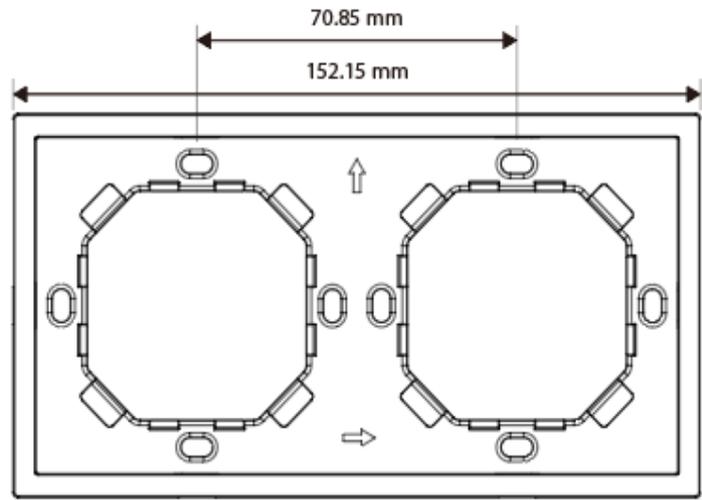
- Supports horizontal and vertical installation;
- Horizontal installation supports up to 4 rows;
- Vertical installation supports up to 4 columns.

European standard

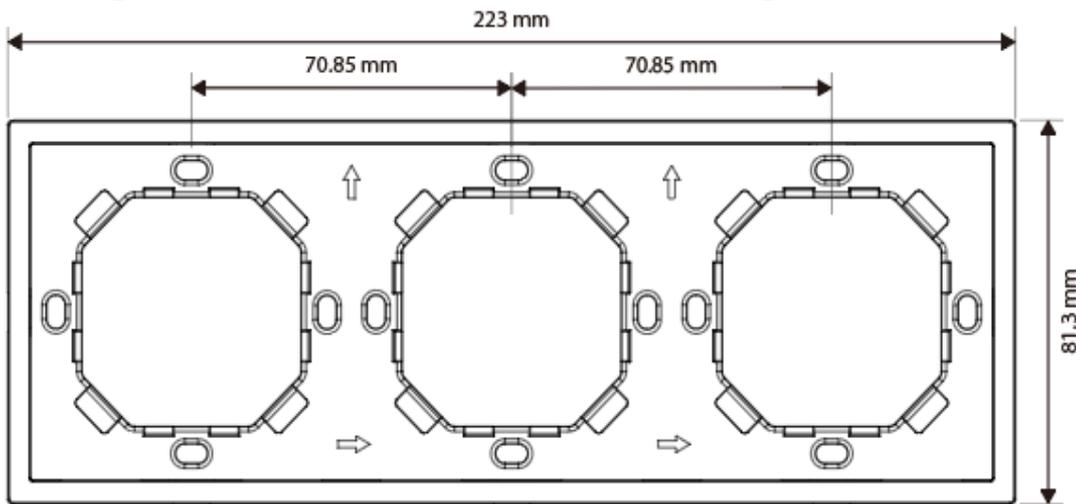
Frame type	Installation direction	Gang number	Size
PC	Horizontal/Vertical	1	81.3*81.3*9(mm)
		2	152.15*81.3*9(mm)
		3	223*81.3*9(mm)
		4	293.85*81.3*9(mm)
Metal	Horizontal/Vertical	1	81.3*81.3*9(mm)
		2	152.15*81.3*9(mm)
		3	223*81.3*9(mm)
		4	293.85*81.3*9(mm)



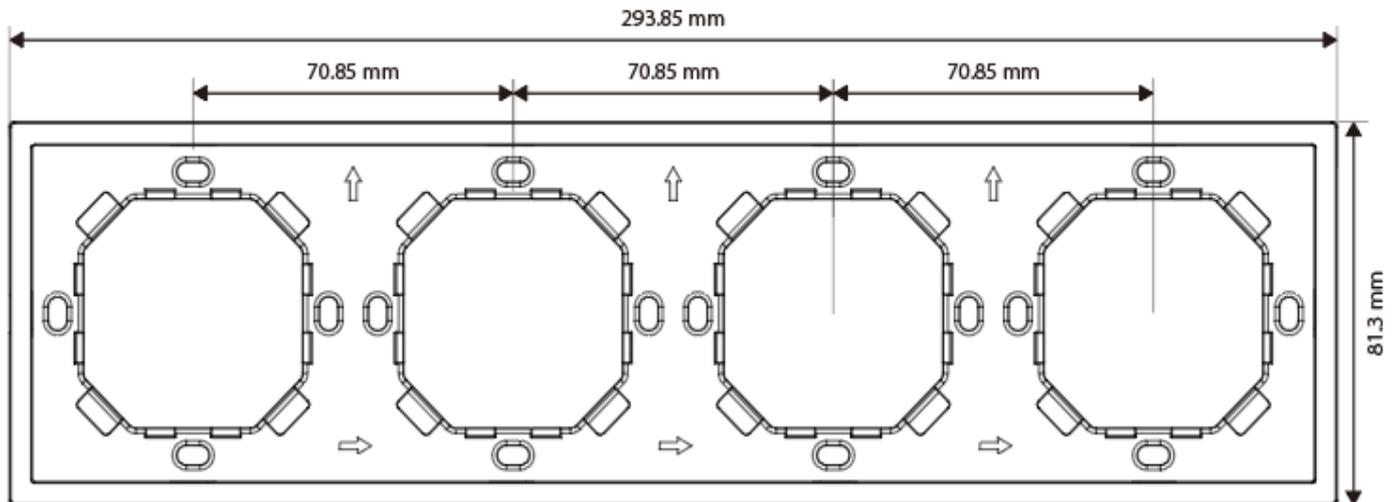
1Gang Panel Frame EU



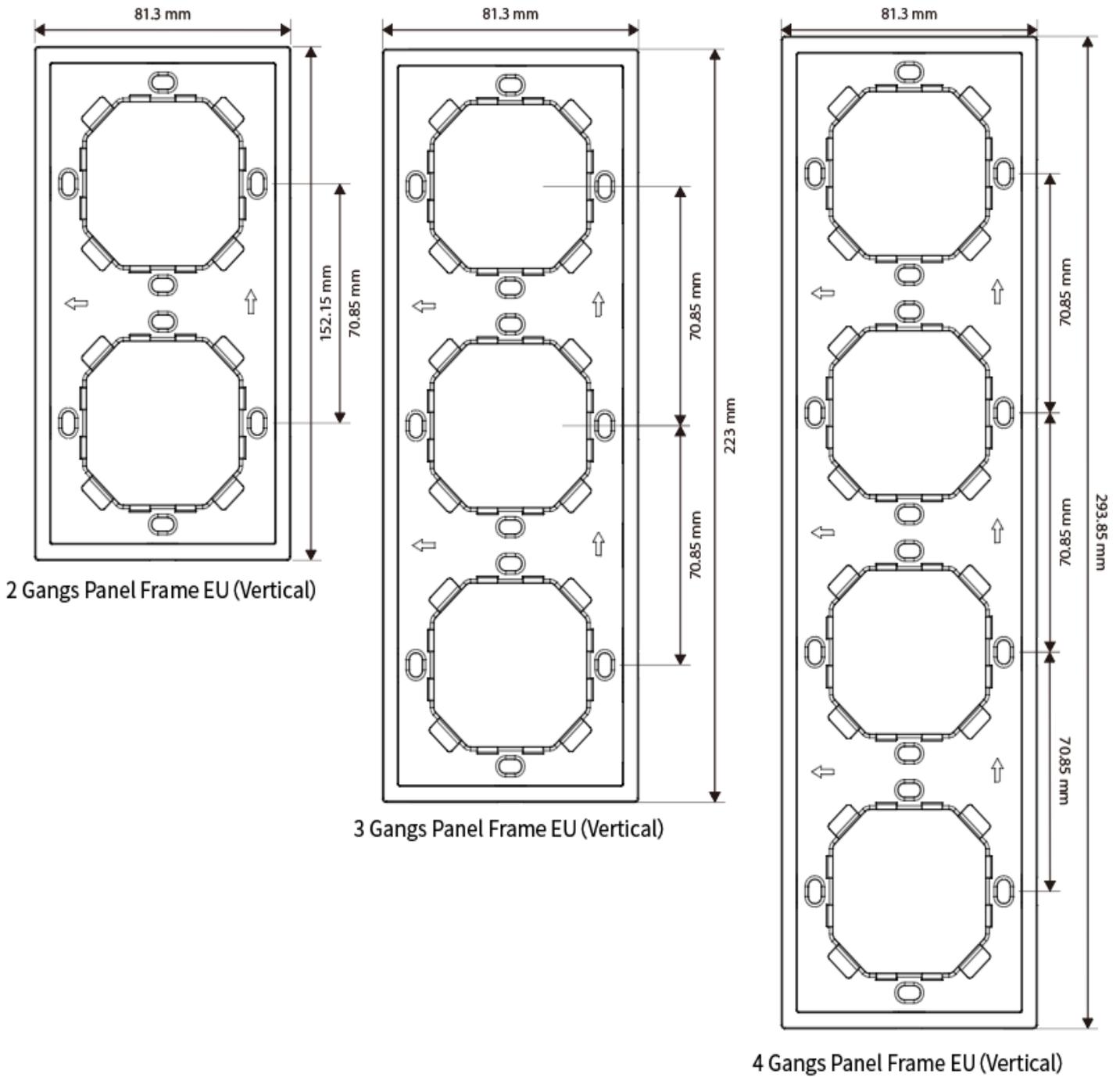
2 Gangs Panel Frame EU (Horizontal)



3 Gangs Panel Frame EU (Horizontal)

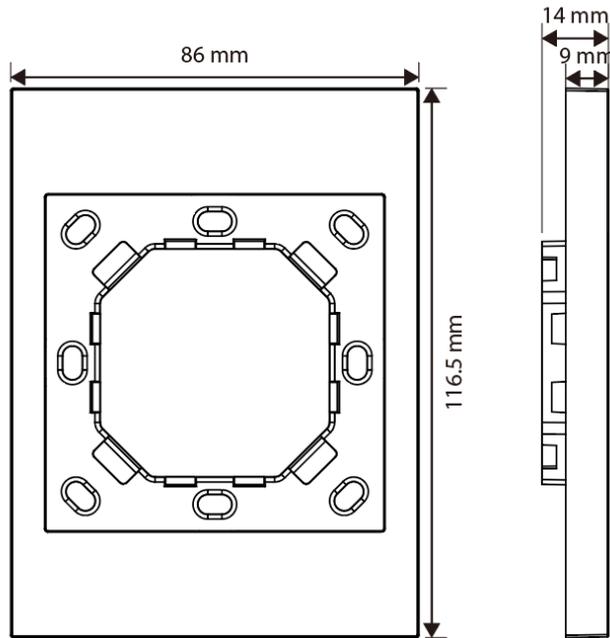


4 Gangs Panel Frame EU (Horizontal)



American standard

Frame type	Installation direction	Gang number	Size
PC	Horizontal	1	86*116.5*9(mm)
Metal	Horizontal	1	86*116.5*9(mm)



◆◆ Disassembly

Warning: Before performing any disassembly procedures on the device, it is crucial to disconnect the device from all voltage sources. This step is necessary to ensure the safety of the technician and prevent any potential damage to the device.

Step 1. Use a straight screwdriver, insert it into the notch on the panel base plate, rotate it 90° after insertion, then pry open the panel frame.

Step 2. To remove the panel and power base, please refer to the section Installation and do it reversely.

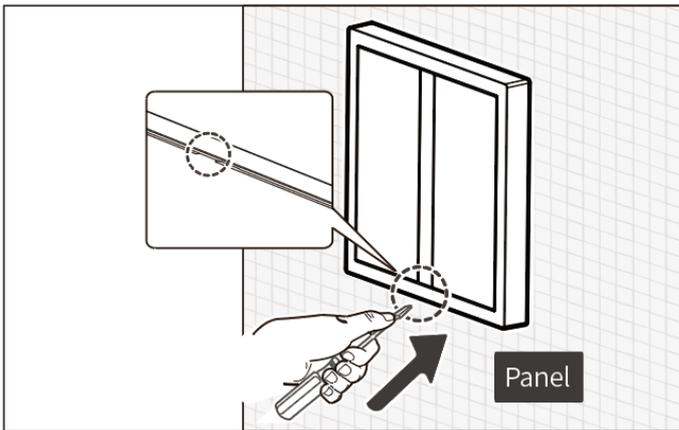


Figure 9

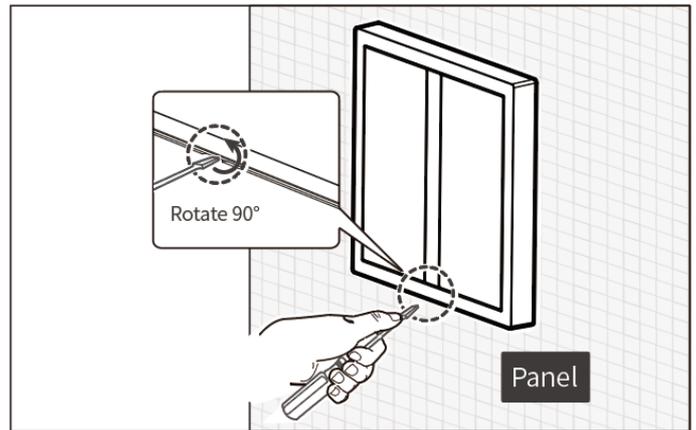


Figure 10

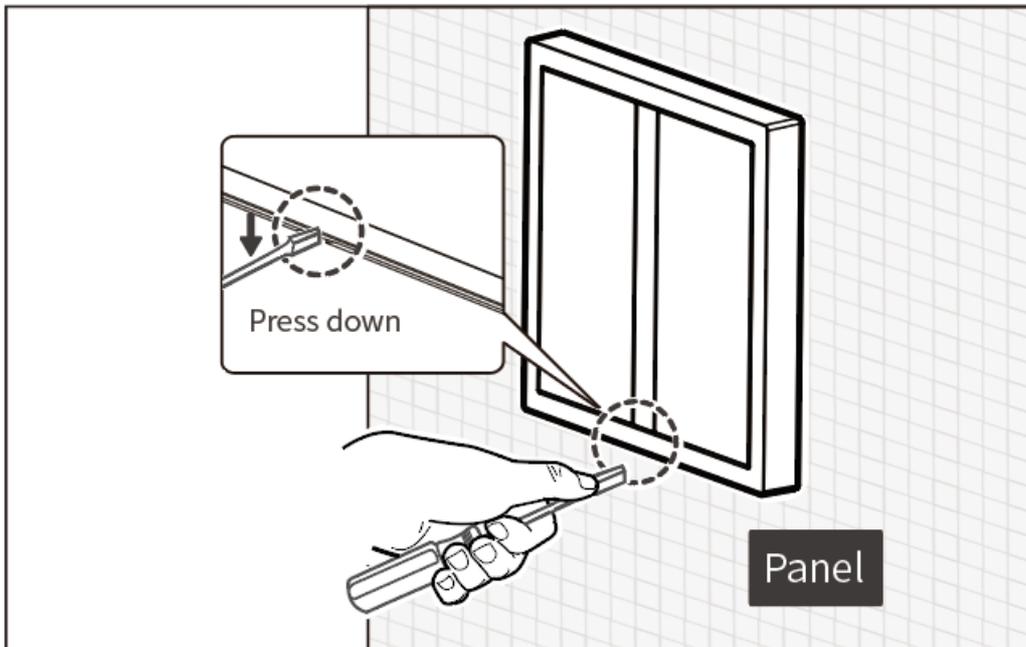


Figure 11

◆◆ Operation

1. Programming mode: Long press any button for 15 seconds, the backlight will turn blue and flash slowly, and the programming mode is on (in programming mode, the subnet ID and device ID can be modified in the commissioning software)

2. Panel lock/unlock :

Manual lock: short press A1 and the last button at the same time for 5 seconds, the indicator light flashes blue (power off and re-power on, the panel is still locked)

Auto-lock: users can configure the auto-lock function in the HDL Studio commissioning software, set the auto-lock time, and the panel will be locked automatically after a certain period of time.

Panel unlock: press A1 and the last button at the same time for 5 seconds, the panel will be unlocked.

Note: Unlocking must be done manually.

3. Customize the colour of the button indicator: support colour customization through the commissioning software (please refer to the commissioning instructions for details).

4. Proximity sensor function setting: support setting of sensing distance through the commissioning software (please refer to the commissioning instructions for details).

◆◆ Packing List

- Panel*1

◆◆ Warranty

Warranty period (five years from the date of invoice), if the product fails in normal use, the user can go to the nearest authorized institution with a valid warranty card to obtain free maintenance.

In the following cases, HDL regards the user as giving up the relevant services promised under the warranty and the user shall bear the corresponding responsibility and shall not be entitled to the free warranty:

- Failure of the device caused by force majeure factors.
- The user has placed the device in a transportation or use environment that does not comply with the statements in the product instructions or technical manuals.
- Unauthorized disassembly of the product by the user.
- Promises not made officially by HDL to the user that are beyond the scope of the warranty are the responsibility of the promisor.

HDL reserves the right to update or change the product without prior notice to the user, please visit the HDL website for answers to your questions and the latest product information.

The final interpretation right of the warranty regulations belongs to HDL.

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Update History:

The form below contains the information of every update. The latest version contains all the updates of all former versions.

Version	Update Information	Date
V1.0	Initial release	January 15, 2026

◆◆ Technical Support

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