

TENSE



TRIM_SWITCHMCW124INV & KNX_INTINV4

SPECIFICATIONS

Power supply: **min. 21 V DC. max 31 V DC.** supplied by the KNX bus line

Maximum power consumption: **360 mW**

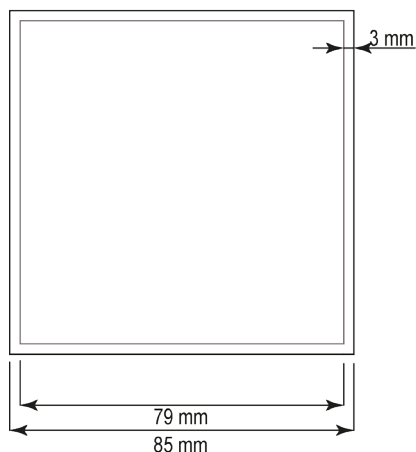
Connection to bus: **2 x 1 mm pins for bus connecting terminal (TP1)**,
0.5mm² section

Operating temperatures: **-5 °C to +45 °C**

Maximum humidity: **93%** relative humidity, no moisture condensation

Type of protection (EN 60529): **IP20** (with front plate mounted)

Dimensions 4F: **85 x 85 mm**



Drawing Intensity Invisible

INTENSITY INVISIBLE



The **Intensity Invisible** of Tense is a **capacitive touch based switch** which is **integrated** in the **plastered wall**.

With its **internal temperature sensor with correction** (or using an external one), the integrated **thermostat** (PI and 2point - switching) can be used to control the room temperature.

The Intensity Invisible has **4 touch zones** with individual **RGB LED feedback** coming from the side of the touch zones. The integrated colour LEDs provide **tactile and functional feedback**. Their individual colour or behaviour can be set through the **ETS** parameter or over the bus.

The Intensities function and behaviour is **programmable** by setting the appropriate parameters in **ETS**. It supports **switching, dimming and setting scenes** for up to four selectable output blocks. Additionally it also has a **scene module, programmable logic ports, timer and up/down counter** functionality.

The Intensity Invisible is installed with the **Trimless Switch Wallbox** delivered by Xillo® to ensure a 100% trimless and recessed result

Do not install the Xillo fixture above heating, fire place, airconditioning unit, in direct sunshine, poolhouses, garden pavilions or exterior applications.

The **functions** of the **INTENSITY** series are:

- **Switch** or Send **1 or 2 Byte values** on
 - Short Touch
 - Short and Long Touch
 - Positive / Negative Edges
 - Multi-touch (touching at least 2 buttons)
- **Dimming**
 - Up
 - Down
 - Up / Down
- **Recalling Scenes**
 - 1-64 scenes can be called
- **Shutter / Blind Control** (using 1 or 2 buttons), with predefined operation concepts: Up/Down, Up, Down:
 - Short Touch: start / Long Touch: stop
 - Short Touch: start / Short Touch: stop
 - Single Touch

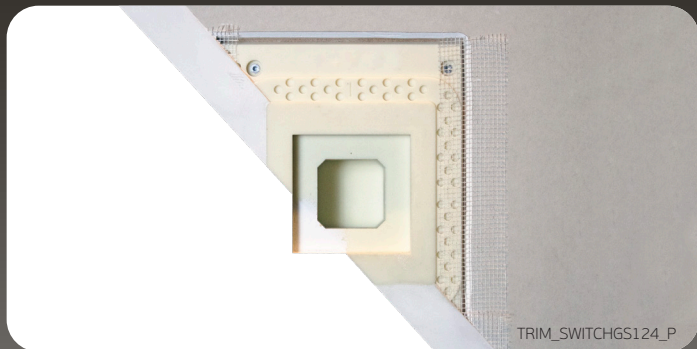
Trimless Switch Wallbox:

TRIM_SWITCHMCMWINV124_BC (brick or concrete)
TRIM_SWITCHMCMWINV124_P (plasterboard)

The **Trimless Switch Wallbox** by Xillo® meets the highest finishing standards and is suitable for all surfaces. The fixture is available in **2 versions**: a version with a thickness of **6mm** to mount on a **brick or concrete wall**, and a version with a thickness of **12,5mm** to integrate in a **plasterboard wall**.

Please note that the Trimless wall box has to be **ordered separately**.

See our **Trimless switch wall box data sheet** for more information.



ACCESSORIES

To ensure easy installation of your Intensity, Infinity or Motivity, a **Trimless Kit** (TRIM_KIT) is included with each TRIM_SWITCH wallbox. Please do not throw away the Trimless Kit. Save it for the moment you want to uninstall the switch, roomcontroller or wall detector!

The trimless kit includes:

REMOVAL CLIPS

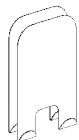
1 x TRIM_KEY (Trimless Key)

To easily **remove the front plate** of the Intensity, Infinity or Motivity, removal clips are available. Just **hook** these **2 clips** behind the switch at both sides and **pull** both clips at the same time.

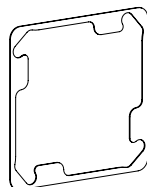
SPACERS

3 x TRIM_SPACER05 (Trimless Spacer 0,5 mm),
1 x TRIM_SPACER2 (Trimless Spacer 2 mm)

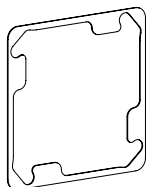
To obtain the **perfect end result** there might be some levelling of the products necessary. Use the spacers to **level** the recessed products with the wall after painting. The **spacers** are placed **behind the BCU**.



REMOVAL CLIPS



SPACER 2 MM



SPACER 0,5 MM

INSTALLATION INSTRUCTIONS:

1. **Remove power** from the KNX bus.
2. **Plasterboard** : Cut out a **225 x 192 x 65 mm hole** in the plasterboard wall and install 2 wooden bars.
Concrete / Brick : Drill a **Ø145 mm hole** in the concrete or brick wall.
3. **Pull the wires** through the back of the wallbox.
4. **Plasterboard** : **Screw** the fixture on the wooden bars by using 4 screws.
Concrete / Brick: **Screw** the fixture on the concrete or brick wall by using 4 plugs, screws and the pre-drilled holes in the fixtures.
5. Add the fibreglass netting and **plaster** up to the rounded second level.
6. **Smoothen** with a sanding machine.
7. **Remove the front**.
8. Connect the bus coupler with the KNX bus using the KNX TP1 bus connection terminal.
9. Connect the **red bus wire** to the red terminal (+) and the **black bus wire** to the black terminal(-).
10. Use two flat headed screws to **fix the bus coupler**. Make sure the mounting is level and that the "TOP ↑" marking on the PCB points upwards.
11. **Re-power** the KNX bus.
12. Press the programming button. Make sure the **red programming LED** lights up.
13. In ETS, add the device and **assign the physical address**.
14. **Program** the physical address. Make sure the red programming LED turns off.
15. **Plug the front** onto the bus coupler. Make sure that the "TOP ↑" marking on the PCB (backside of the front) points upwards.
16. **Remove power** from the KNX bus.
17. **Paint** the wall and the switch.
18. Spray a **mat water based varnish** on the switch to protect it and make it cleanable.
19. **Re-power** the KNX bus.
20. In ETS, select the appropriate parameters and **assign the group addresses**.
21. **Download** the application program to the device.