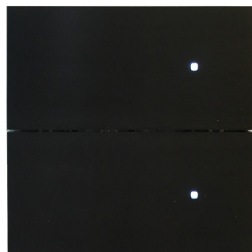


TENSE



KNX_INTLAB4

SPECIFICATIONS

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

Maximum power consumption: 1F/2F: **360mW** - 4F: **480mW**

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 1F, 2F: METAL : **84 x 84 x 6 mm**
 4F: METAL : **84 x 165 x 6 mm**

INSTALLATION INSTRUCTIONS:

1. **Remove power** from the KNX bus.
2. Connect the bus coupler with the KNX bus using the KNX TP1 bus connection terminal.
3. Connect the **black bus wire** to the black terminal(-) and the **red bus wire** to the red terminal (+).
4. Remove the front.
5. The bus coupler fits in a **standard size wallbox**. 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.
6. **Re-power** the KNX bus.
7. Press the programming button. Make sure the **red programming LED** lights up.
8. In ETS, add the device and **assign the physical address**.
9. **Program** the physical address. Make sure the red programming LED turns off.
10. **Plug the front** onto the bus coupler. Make sure that the "TOP ↑" marking on the PCB (backside of the front) points upwards.
11. In ETS, select the appropriate parameters and **assign the group addresses**.
12. **Download** the application program to the device.

INTENSITY LANDSCAPE SERIES



The **Intensity Landscape Series** of Tense is a capacitive touch based **switch** with **integrated temperature sensor with correction**. With this internal temperature sensor (or using an external one), the integrated thermostat (PI and 2point - switching) can be used to **control the room temperature**.

Depending on the type of front plate the Intensity Landscape has **1, 2 or 4 rectangular touch zones** with individual **RGB LED feedback**. 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 Landscape can be installed on a regular **single British or European square or round wallbox**. The switch is **surface mount**, but can be made **100% recessed** with the Trimless Switch Wallbox by Xillo®.

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

ACCESSORIES:

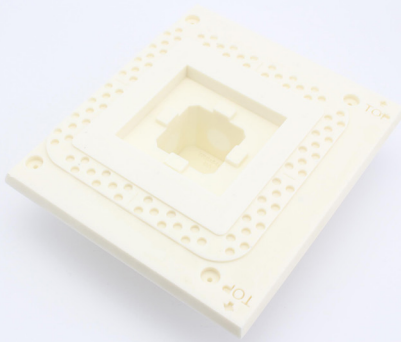
The Intensity can be completed by using accessories.

TRIMLESS WALLBOX

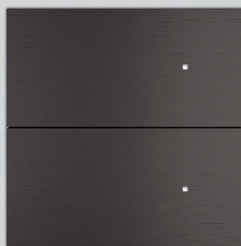
TRIM_SWITCHMCWINV124_BC (brick or concrete/metal, corian or wood),
 TRIM_SWITCHMCWINV124_P (plasterboard/metal, corian or wood),
 TRIM_SWITCHGS124_BC (brick or concrete/glass or stone),
 TRIM_SWITCHGS124_P (plasterboard/glass or stone).

The switch is surface mount, but can be **made 100% recessed** with the **Trimless Wallbox** delivered by Xillo®. The fixture is in one piece and completely made of the **solid patented composite**, so no need for an extra mounting kit. Easily install this wallbox in the wall thanks to the **pre-drilled holes**. The unique layered design and the **handy indicators for laser positioning**, make sure that every fixture is **easy to plaster**. In addition, the typical Xillo® pattern and large mounting surface ensure that the plaster is always perfectly fixated.

See our **Trimless Switch Wallbox data sheet** for further information.



TRIM_SWITCHMCW124INV

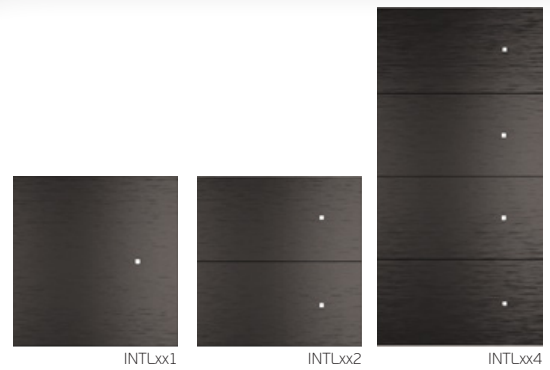


KNX_INTLAB2 & TRIM_SWITCHMCWINV124

CUSTOMIZATIONS:

Would you like to **personalize** your **products** permanently with inscriptions, logos and/or symbols? All Tense finishes are suitable for these customizations. **Engraving, printing, lasering...** are some of the available options.

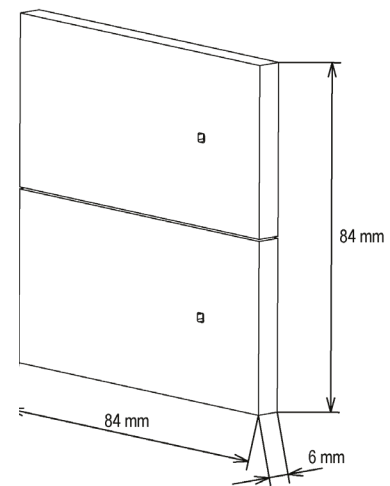
See our **Customizations data sheet** for further explanation.



INTLxx1

INTLxx2

INTLxx4



Drawing Intensity Landscape 2F

FINISHES

Aluminium:

Alu (brushed)	NOC_INTA
Forged Alu	NOC_INTFA
Alu Black (brushed)	NOC_INTAB
Forged Alu Black	NOC_INTFAB
Alu Dark Grey (brushed)	NOC_INTADG
Forged Alu Dark Grey	NOC_INTFADG
Alu White (RAL 9016)	NOC_INTAW
Alu RAL (on request)	NOC_INTARAL

Bronze:

Bronze	NOC_INTB
Forged Bronze	NOC_INTFB
Bronze Light	NOC_INTBL
Forged Bronze Light	NOC_INTFBL

Metal:

Chrome (polished)	NOC_INTCH
Stainless Steel (brushed)	NOC_INTSS
Forged Stainless Steel	NOC_INTFSS
Forged Steel	NOC_INTFS
Brushed Gold	NOC_INTBG
Forged Gold	NOC_INTFG
Brushed Copper Rose	NOC_INTBCR
Forged Copper Rose	NOC_INTFCR

TECHNICAL DOCUMENTATION:

NORMALLY OPEN CONTACT INTENSITY

(NOC_INT = DRY CONTACT = POTENTIAL FREE CONTACT)

SPECIFICATIONS

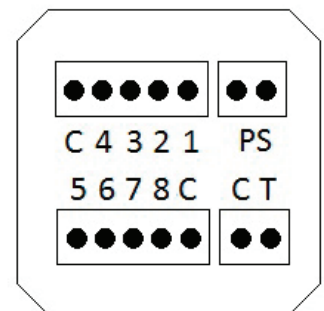
- **Power supply:**
 - DC: min. 12V, max. 24V
- **Maximum own consumption (LED's 100%):**

	12V DC	24V DC
1F	17mA	11mA
2F	24mA	15mA
4F	38mA	22mA
8F	70mA	36mA

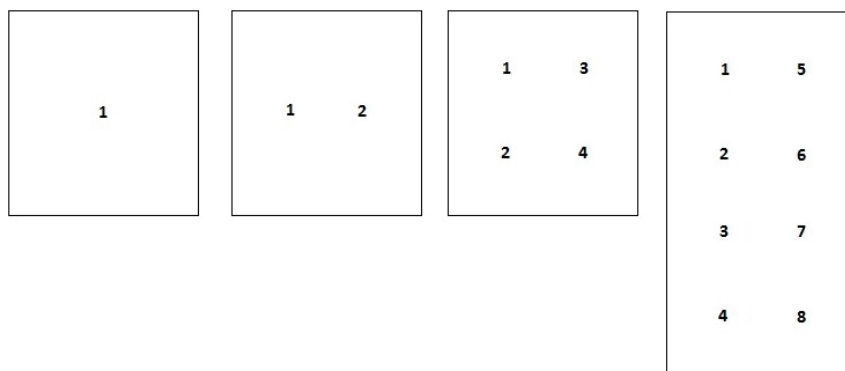
- **Load:** potential free Normally Open Contact, max. 100mA @48V DC switching capacity.
- **Feedback:** white LED feedback, operation according to the rotary switch.

CONNECTION

- **Power supply (PS):** for the calculation of the power supply to be used, please use the above maximum power consumption ratings.
- **Contacts:**
 - C: to COMMON of the input module
 - 1 to 8: to any input of the input module
 - No separate output for multi touch detection
Multi touch is supported through individual switching outputs 1 to 8.



POSITIONS OF THE PUSH BUTTONS



FUNCTION OF THE ROTARY SWITCH

The rotary switch, which is located on the Bus Coupling Unit, determines the type of switch that must be mounted, as well as the LED configuration.

Use following chart to set up your switch:

- 0 No function/switch is in off state and won't detect touch at all
- 1 1F push button with LED's 70% on without touch / 100% by contact
- 2 2F push button with LED's 70% on without touch / 100% by contact
- 3 4F push button with LED's 70% on without touch / 100% by contact
- 4 8F push button with LED's 70% on without touch / 100% by contact
- 5 1F push button with LED's off without touch / 100% by contact
- 6 2F push button with LED's off without touch / 100% by contact
- 7 4F push button with LED's off without touch / 100% by contact
- 8 8F push button with LED's off without touch / 100% by contact
- 9 No function/switch is in off state and won't detect touch at all



GUARANTEE

For information on guarantee, please see our general guarantee policy.

WIRING DIAGRAM

