TENSE

KNX_INTA4

INTENSITY SERIES

KNX

The **Intensity** 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 has 1, 2, 4 or 8 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 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 Wallbox delivered 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

SPECIFICATIONS

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

Maximum power consumption: 1F/2F/4F: **360mW** - 8F: **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, 4F:	GLASS / STONE:	**90 x 90 x 8 mm**
	METAL / WOOD / CORIAN:	**84 x 84 x 6 mm**
	CORIAN 3D:	**84 x 84 x 10 mm**
8F:	GLASS / STONE :	**90 x 160 x 8 mm**
	METAL / WOOD / CORIAN:	**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 **red bus wire** to the red terminal (**+**) and the **black bus wire** to the black 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.
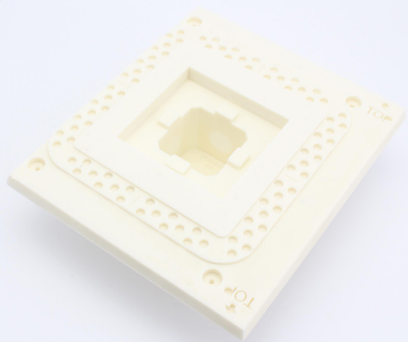
ACCESSORIES:

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.
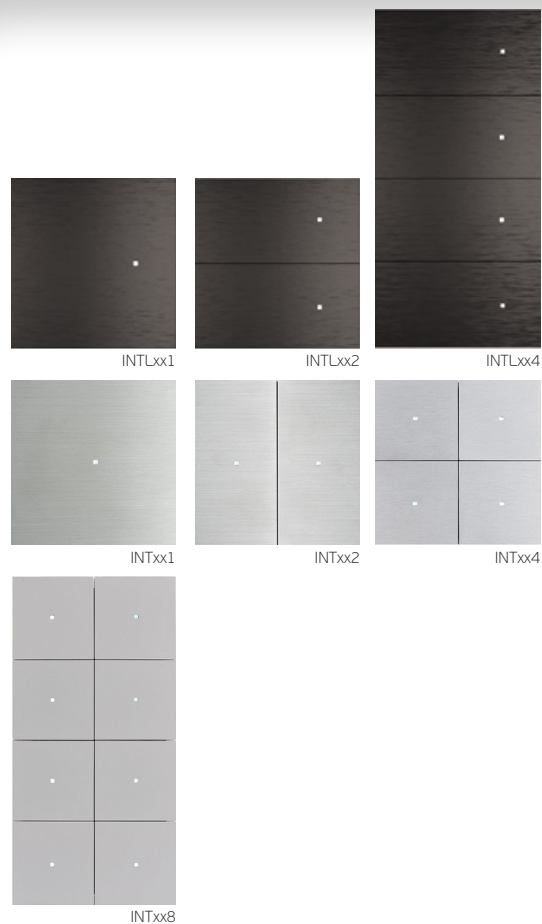

TRIM_SWITCHMCW124INV
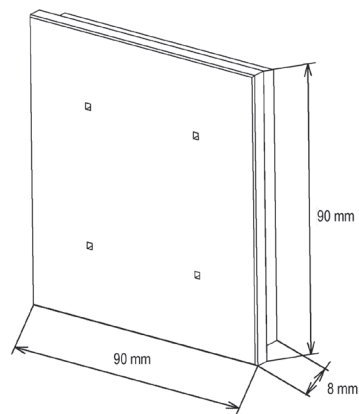

KNX_INTAW4 & TRIM_SWITCH

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
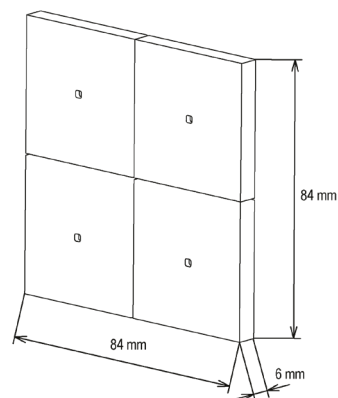available options.

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

INTLxx1

INTLxx2

INTLxx4

INTxx1

INTxx2

INTxx4

INTxx8

The Intensity series complies of 7 different touch-pad combinations
in two product lines: The Intensity and Intensity Landscape. See our
Intensity Landscape data sheet for further information.

90 mm

90 mm

8 mm

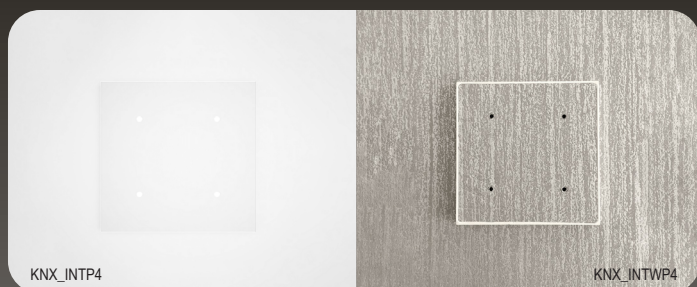Drawing Intensity Glass/Stone 4F

84 mm

84 mm

6 mm

Drawing Intensity Metal 4F

SPECIAL FINISHES:

INTENSITY PAINTABLE
KNX_INTP4

Do you like to subtly integrate your switch in your interior? Just **paint** this finish plate and the switch is **almost invisible**. This front is made of a special **composite** material which can easily be painted in any colour matching your interior. For protecting the switch, a matt **water-based varnish** can be sprayed over the paint.

KNX_INTP4   KNX_INTWP4

INTENSITY WALLPAPER
KNX_INTWP4

This front is made of a special **composite** material and the **sides** can easily be **painted** in any colour, matching the wall or interior. **Wallpaper**, wood veneer, leather, fish skin, cork and other materials of a thickness up to 0,5 mm can be **glued** in the cut-out.

INTENSITY INTEGRATED
KNX_INTINT

Tense can provide you the **electronics** to be placed behind a glass, Corian®, stone, ceramic or wooden wall. Furthermore, we can guide you with the instructions and dimensions regarding the **cut-out at the back of these materials**.

KNX_INTINT4   KNX_INTINV4

INTENSITY INVISIBLE
KNX_INTINV

Want to lift your switch to another level of **integration**? Then opt for the **Intensity Invisible** from Tense. Thanks to the combination of the **Xillo® Trimless wallbox** & the durable **composite** material, an in-wall switch is created which is elegant, stylish and nearly **invisible**. This switch can be easily finished in any colour and type of paint of your liking.

See the relevant data sheets for more information about each of our special finishes.

FINISHES

1F, 2F, 8F available in Corian, Glass and all Metal finishes.
4F available in all finishes.

Aluminium:

Alu (brushed)	KNX_INTA
Forged Alu	KNX_INTFA
Alu Black (brushed)	KNX_INTAB
Forged Alu Black	KNX_INTFAB
Alu Dark Grey (brushed)	KNX_INTADG
Forged Alu Dark Grey	KNX_INTFADG
Alu White (RAL 9016)	KNX_INTAW
Alu RAL (on request)	KNX_INTARAL

Bronze:

Bronze	KNX_INTB
Forged Bronze	KNX_INTFB
Bronze Light	KNX_INTBL
Forged Bronze Light	KNX_INTFBL

Metal:

Chrome (polished)	KNX_INTCH
Stainless Steel (brushed)	KNX_INTSS
Forged Stainless Steel	KNX_INTFSS
Forged Steel	KNX_INTFS
Brushed Gold	KNX_INTBG
Forged Gold	KNX_INTFG
Brushed Copper Rose	KNX_INTBCR
Forged Copper Rose	KNX_INTFCR

Corian:

Corian Black	KNX_INTCB
Corian White	KNX_INTCW
Corian RAL	KNX_INTCRAL
Corian Carrea White	KNX_INTCCAW
Corian Linea White	KNX_INTCLIW
Corian Organica White	KNX_INTCORW
Corian Ronda White	KNX_INTCROW
Corian Clauda White	KNX_INTCCLW

Glass:

Glass Black (RAL 9017)	KNX_INTGB
Glass Silver (RAL 7001)	KNX_INTGS
Glass White (RAL 9016)	KNX_INTGW

Stone:

Belgian Blue	KNX_INTSBB
Calacatta Marble	KNX_INTSCM
Carrara Bianco Marble	KNX_INTSCBM
Ceppo Di Gres Limestone	KNX_INTSCDGL
Emperador Grey Marble	KNX_INTSEGM
Emperador Marron Marble	KNX_INTSEMM
French White	KNX_INTSFW
Oak White Marble	KNX_INTSOWM

Wood:

Afrormosia	KNX_INTWAF
Ash	KNX_INTWAS
Oak Cotton White	KNX_INTWOCW
Oak Dark	KNX_INTWOD
Oak Pura Natura	KNX_INTWOPN
Padouk	KNX_INTWPA
Walnut	KNX_INTWWA
Wenge	KNX_INTWWE