Touch-MyDesign. KNX Capacitive Touch Switch
ZN1VI-TPTMD4, ZN1VI-TPTMD6, ZN1VI-TPTMD8

Technical Documentation

CHARACTERISTICS

- Printout crystal with touch surface
- Complete custom crystal printout image through web application
- 4, 6 or 8 main touch areas.
- 5 auxiliary touch areas.
- 2 analog/digital opto-coupled inputs.
- No Power Supply different from the bus needed.
- Thermostat.
- Temperature sensor.
- State LED indicators.
- Custom LED luminosity.
- Night mode LED luminosity attenuation.
- KNX BCU integrated.
- Magnetic fit with security mechanism to avoid accidental extraction.
- Metallic stand included.
- Complete Data Saving in case of Power Failure.
- CE directives compliance.

1. Temperature Sensor **2**. KNX Bus **3**. Analog/digital inputs **4.** Programming button **5**. Programming LED

6. Magnet **7**. Lower LED **8**. Upper LED **9**. Upper Touch Area

Programming button: used to set the device in "Programming mode". If kept pressed while KNX bus recovery, "Secure Mode" is set.
Programming LED: LED ON indicates programming mode. Led blinks every 0.5 seconds when device is in "Secure Mode".

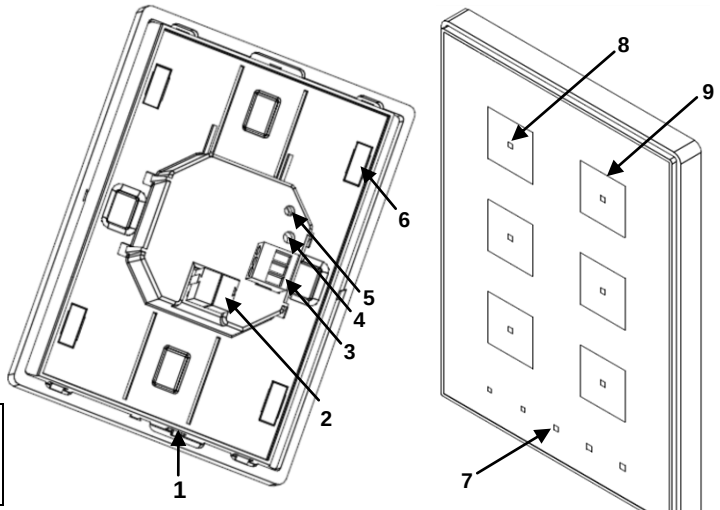


Figure 1. Touch-MyDesign 6

GENERAL SPECIFICATIONS

CONCEPT		DESCRIPTION
Device Type		Electric Operation Control device
EIB KNX Supply	Voltage	29V DC
	Voltage range	21…31V DC
	Consumption	10mA
	Connection type	Typical BUS connector TP1, 0.50mm^2 section
Operating temperature		from 10º C to +40º C
Storage temperature		from -20º C to +60º C
Ambient humidity (relative)		from 30 to 85% RH (no condensation)
Storage humidity (relative)		from 30 to 85% RH (no condensation)
Complementary characteristics		Class B
Safety class		II
Operation type		Continuous operation
Device action type		Type 1
Electrical solicitations period		Long
No. of Automatic cycles per auto action		100.000
Type of protection		IP20, clean environment
Assembly		Vertical or horizontal position. See example in "installation figure"
Minimum clearances		Keep away from heat and cold air flows to get better temperature sensor measures
Response to BUS voltaje failure		Complete data saving
Response to BUS failure recovery		Before Failure Data recovery
Weight		140 gr. without metallic stand / 180 gr. with metallic stand
PCB CTI Index		175 V
Enclosure material		PC+ABS FR V0 Halogen free

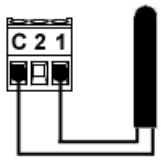
INPUT CONNECTIONS

CONCEPT	DESCRIPTION
Number of inputs per common	2
Isolation method	Opto-Coupler
Output Voltage of the Inputs	+5V DC for the common (do not connect external voltage into the inputs in any case)
Output current of the Inputs	1mA at 5V DC in every input
Impedance of the Inputs	Aprox. 3.3kΩ
Switching type	Dry voltage contacts between input and common
Connection method	Cable screw terminal and matching socket
Max.cable lenght	30m.
NTC sensor cable lenght	1.5m. (extendable until 30m.)
Cable cross-section	from 0,15 mm² to 1 mm²
Response time OFF → ON	Maximum 10ms.
Response time ON → OFF	Maximum 10ms.
Operation indicator	None
Number of inputs per common	2

INPUT CONNECTIONS

Any combination of the next **accessories** is allowed in the inputs:

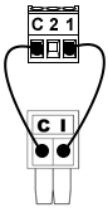
Temperature Probe



Temperature probe references:

ZN1AC-NTC68E
ZN1AC-NTC68F
ZN1AC-NTC68S

Motion Sensor

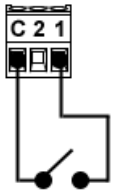


Up to two motion sensors can be plugged into the same Touch-MyDesign input (parallel wiring)

Motion sensor cable screw terminal.

Motion sensor reference:
ZN1IO-DETEC

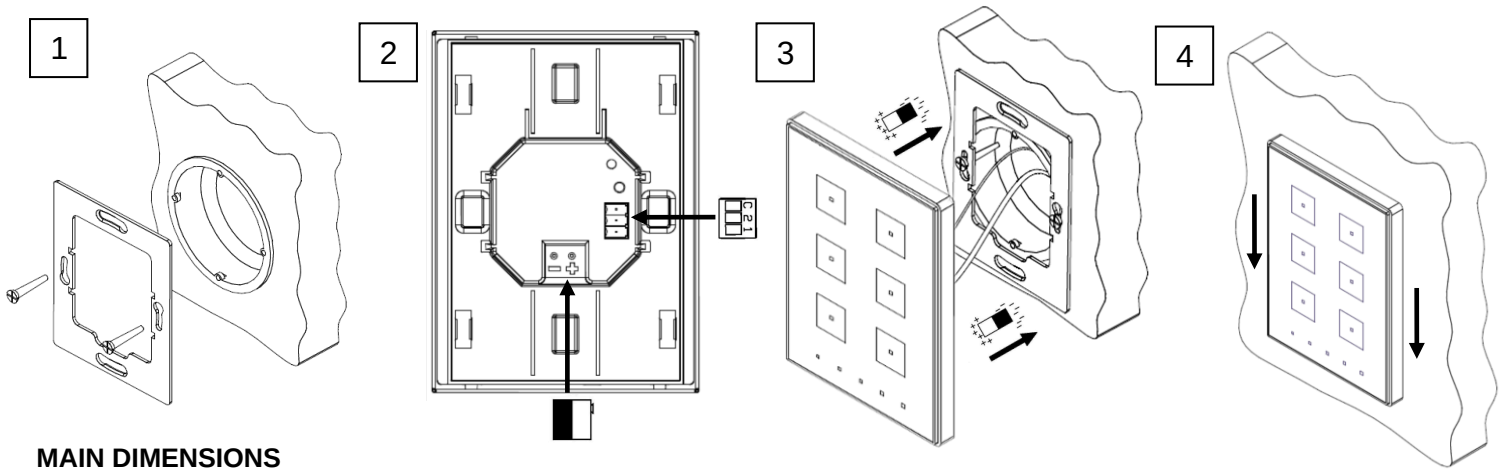
Switch/Sensor/ Push Button



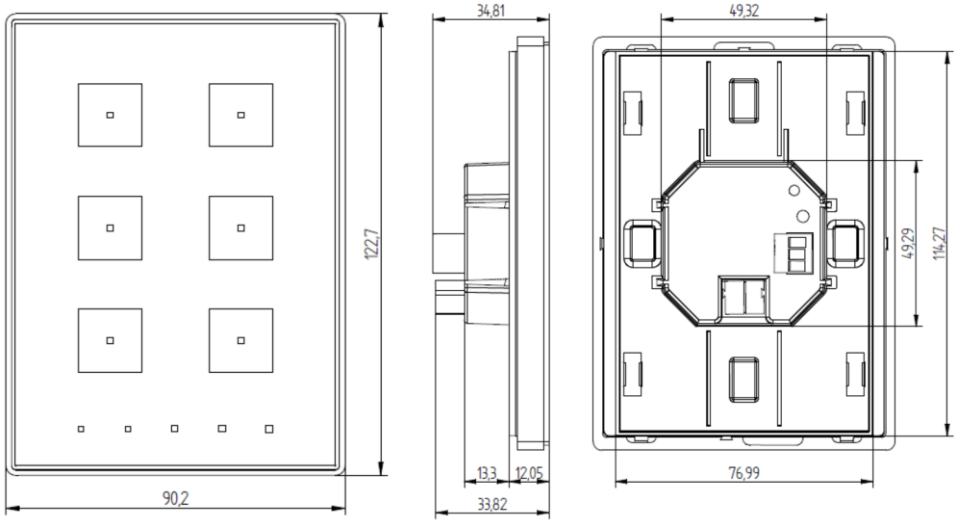
INSTALLATION AND CONNECTION DIAGRAM

Step 1: Place the metallic piece into a squared (60 X 60 mm) or rounded (65 mm interior diameter) standard mounting box with the own screws from the box.
Paso 2: Connect the KNX bus at the rear of the device, as well as the inputs terminal.
Paso 3: Once inputs and bus KNX are connected, fit Touch-MyDesign in the metal platform. The device is fixed thanks to the magnets.
Paso 4: Slid Touch-MyDesign downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Touch-MyDesign outline can be seen.

To uninstall proceed the reverse way.



MAIN DIMENSIONS



GENERAL CARE

- Do not use aerosol sprays, solvents, or abrasives that might damage the device.
- Clean the product with a clean, soft, damp cloth.

SAFETY INSTRUCTIONS

- Do not connect the main voltage (230V) or any other external voltages to any point of the KNX Bus. Connecting an external voltage might put the KNX system into risk.
- Ensure that there is enough insulation between the AC Voltage cables and the KNX Bus.
- Do not expose this device to rain or high humidity.