

### CHARACTERISTICS

- Completely customized image for printout glass, through web application.
- 1, 2, 4 or 6 touch areas.
- 2 analog/digital inputs.
- No power supply different from the bus needed.
- Thermostat.
- Temperature sensor.
- Status LED indicators.
- Custom LED luminosity.
- 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 compliant.

1. Temperature sensor	2. KNX bus connector	3. Analog/digital inputs	4. Programming button
5. Programming LED	6. Magnet	7. Indicator LED	8. Touch area

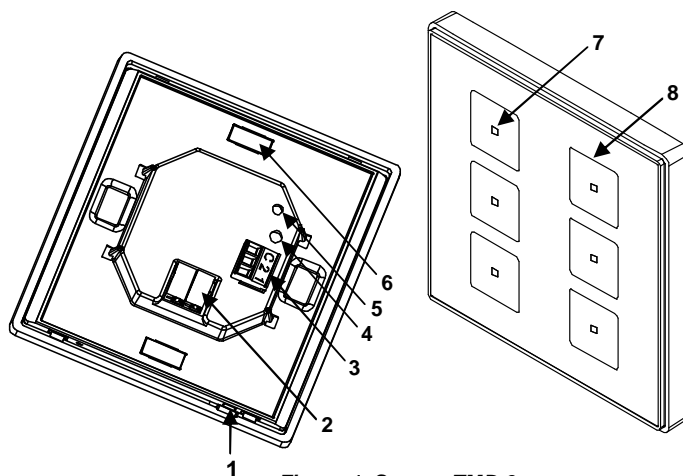


Figure 1. Square TMD 6

**Programming button:** used to set the device in “programming mode”. If this button is held while plugging the device into the KNX bus, it goes into safe mode.

**Programming LED:** LED ON indicates programming mode. Blinking every 0.5 seconds when device is in safe mode.

### GENERAL SPECIFICATIONS

CONCEPT		DESCRIPTION		
Device type		Electric operation control device		
KNX supply	Voltage (typical)		29V DC	
	Voltage range		21...31V DC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	6	174
		24VDC	7.5	180
Connection type	Starting		25	725
	Typical bus connector TP1, 0.50mm <sup>2</sup> section			
Operating temperature		from 5° C to +40° C		
Storage temperature		from -20° C to +60° C		
Ambient humidity (relative)		from 5 to 95% RH (no condensation)		
Storage humidity (relative)		from 5 to 95% RH (no condensation)		
Complementary characteristics		Class B		
Safety class		III		
Operation type		Continuous operation		
Device action type		Type 1		
Electrical solicitations period		Long		
Type of protection		IP20, clean environment		
Assembly		Vertical or horizontal position. See example in “installation and connection diagram”		
Minimum clearances		Keep away from heat and cold air flows to get better temperature sensor measures		
Response to bus voltage failure		Complete data saving		
Response to bus failure recovery		Data recovery		
Weight		120 gr. without metallic stand / 160 gr. with metallic stand		
PCB CTI index		175 V		
Enclosure material		PC+ABS FR V0 halogen free		

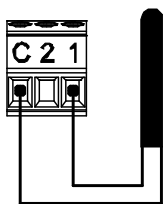
### INPUT CONNECTIONS

CONCEPT	DESCRIPTION
Number of inputs	2
Output voltage of the inputs	+3.3V DC for the common (do not connect external voltage into the inputs in any case)
Output current of the inputs	1mA at 3.3V DC in every input
Impedance of the inputs	Approx. 3.3kΩ
Switching type	Dry voltage contacts between input and common
Connection method	Cable screw terminal and matching socket
Max.cable length	30m.
NTC sensor cable length	1.5m. (extendable up to 30m.)
NTC accuracy (@ 25°C)	0.5°C
Temperature measure resolution	0.1°C
Cable cross-section	from 0.15 mm <sup>2</sup> to 1 mm <sup>2</sup>
Response time OFF → ON	Maximum 10ms.
Response time ON → OFF	Maximum 10ms.
Operation indicator	None

## 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

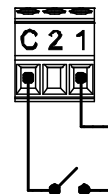


Up to two motion sensors can be plugged into the same Square TMD input (parallel wiring)

Motion sensor cable screw terminal.

**Motion sensor references:**  
ZN1IO-DETEC-X  
ZN1IO-DETEC-P <sup>(1)</sup>

### Switch/Sensor/ Push Button



(1) The micro switch number 2 in the ZN1IO-DETEC-P **must be in Type B position** to work properly.

## INSTALLATION AND CONNECTION DIAGRAM

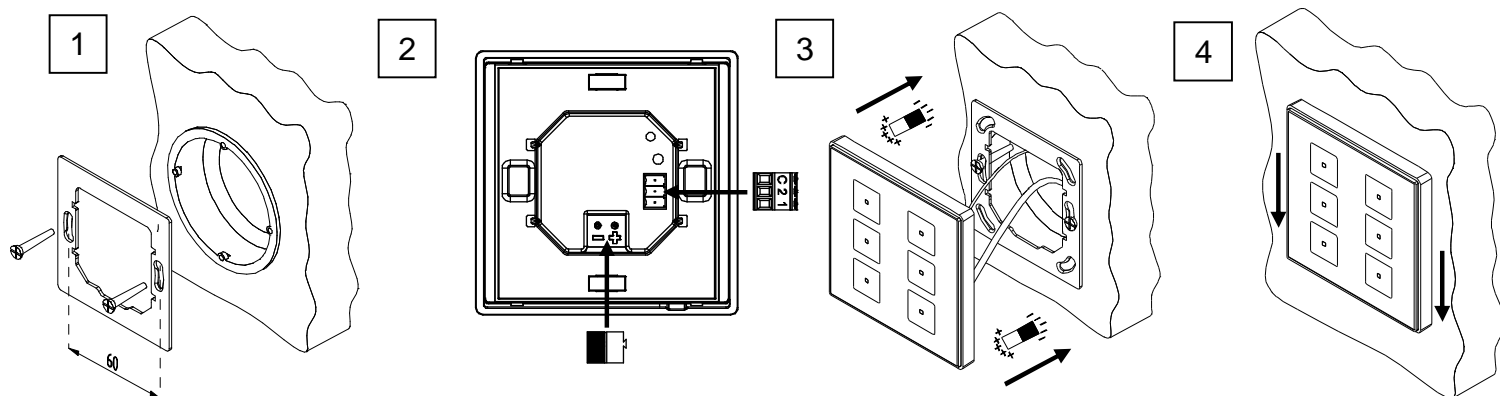
**Step 1:** Place the metallic piece into a squared or rounded standard mounting box with the own screws from the box.

**Step 2:** Connect the KNX bus at the rear of the device, as well as the inputs terminal.

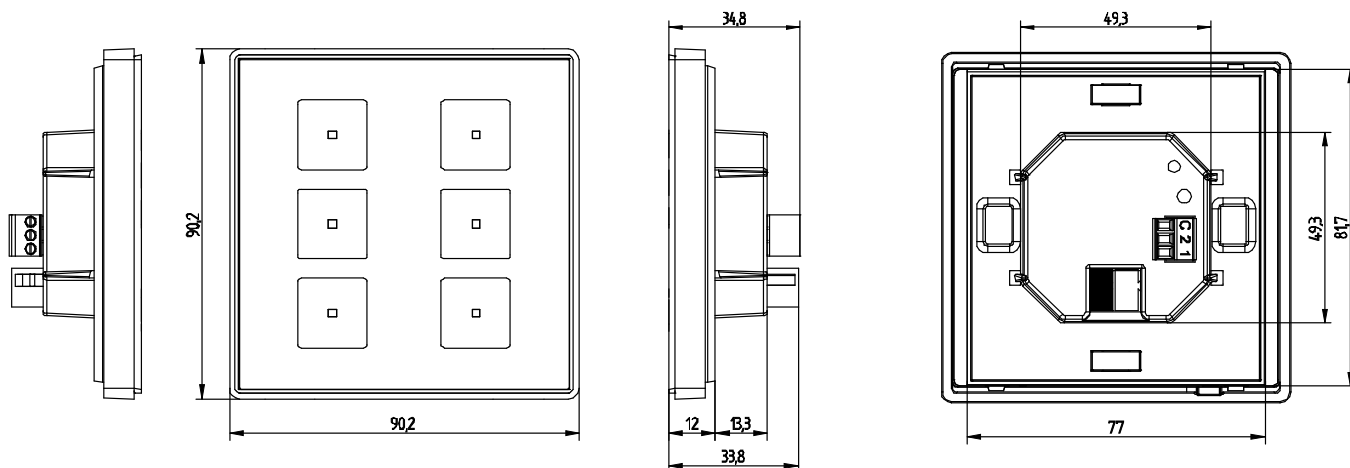
**Step 3:** Once inputs and bus KNX are connected, fit Square TMD in the metal platform. The device is fixed thanks to the magnets.

**Step 4:** Slid Square TMD downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Square TMD outline can be seen.

To uninstall proceed the reverse way.



## MAIN DIMENSIONS (in millimeters)



## 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 direct sunlight, rain or high humidity.