

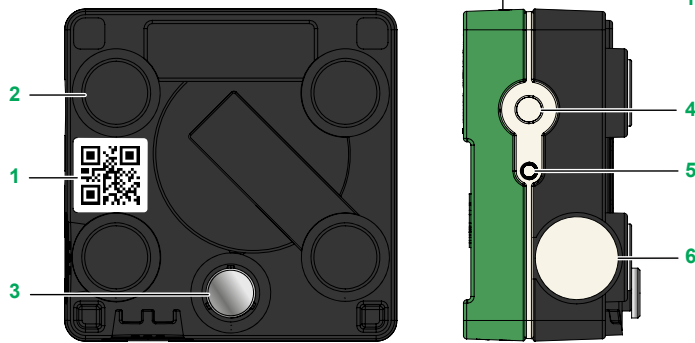


## Indoor thermal and humidity sensor for wireless access point

Scan this code to access the Cybersecurity Portal

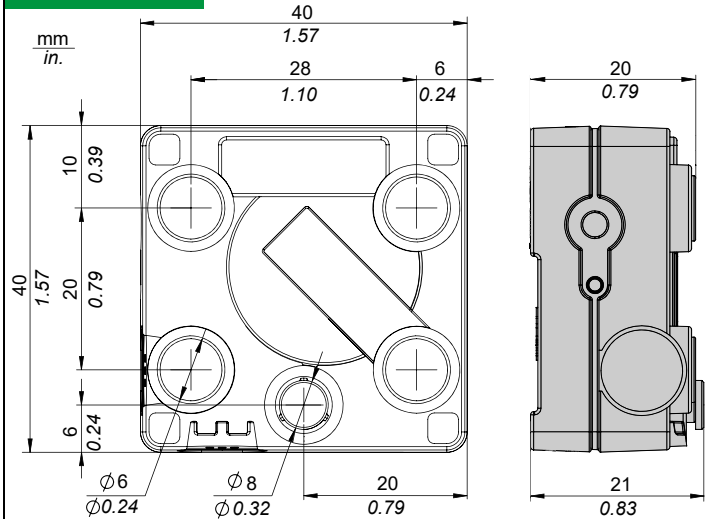


### Description



1	SN + ZigBee ID (QR Code or Text)
2	4 x Magnets for mechanical attachment
3	Thermal sensor element in contact with measured surface
4	Button
5	Green LED
6	Humidity sensor protection

### Dimensions



### ⚠️ DANGER

#### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E or CSA Z462 or local applicable regulation.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Switch off the power supply to the environment in which the sensor will be placed before installing it.
- Always use a properly rated voltage sensing device to confirm power is off.
- Read and understand this guide and the guides according to the switchgear and controlgear where the ZBRTT1 will be installed before performing any installation or maintenance operation. If the installation and user guides of the switchgear and controlgear do not cover the integration of the ZBRTT1, contact the manufacturer of the switchgear.
- Do not replace the ZBRTT1 by any similar product not specified within this document.
- Do not use the ZBRTT1 in a manner not specified by this document.
- Check if the technical ratings of the ZBRTT1 are adapted to the application.
- Replace all devices, doors and covers before turning on power to the equipment and the installation where is placed.

Failure to follow these instructions will result in death or serious injury.

### ⚠️ CAUTION



#### EXPOSURE TO RADIO FREQUENCY

- Read and understand this guide before performing any installation with the sensor ZBRTT1.
- FCC: This device complies with FCC RF radiation exposure limits set forth for general population. This device must be installed to provide a separation distance of at least 20 cm (7.87 in.) from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.
- IC: This device complies with Industry Canada RF radiation exposure limits set forth for general population. This device must be installed to provide a separation distance of at least 20 cm (7.87 in.) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Failure to follow these instructions can result in injury or equipment damage.

### ⚠️ CAUTION

#### EXPOSURE TO CHEMICAL AGENT

Do not use chemical solvent or alcohol on the device.

Failure to follow these instructions can result in injury or equipment damage.

### ⚠️ CAUTION

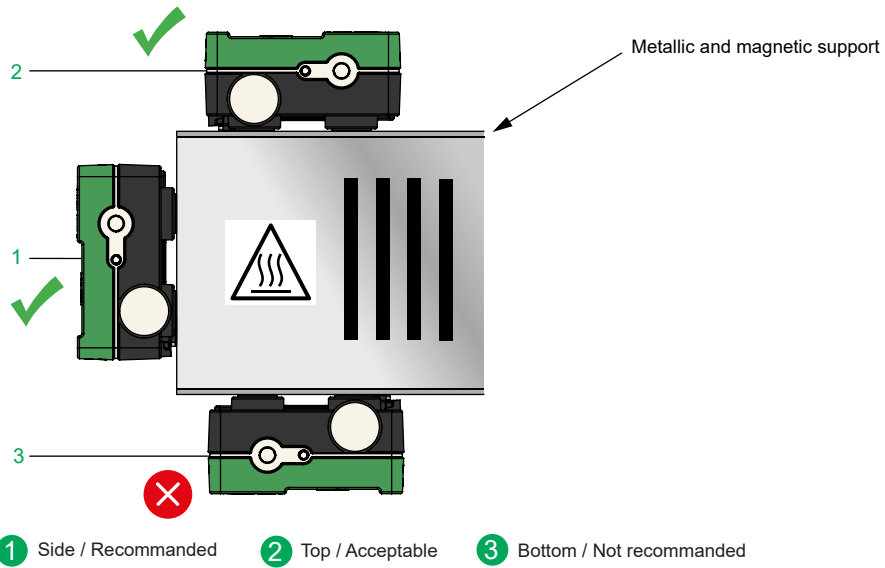
#### CONTACT WITH HOT SURFACES

- Use appropriate personal protective equipment (PPE).
- Allow surface to cool before servicing.

Failure to follow these instructions can result in injury or equipment damage.



## Installation



### ⚠ CAUTION

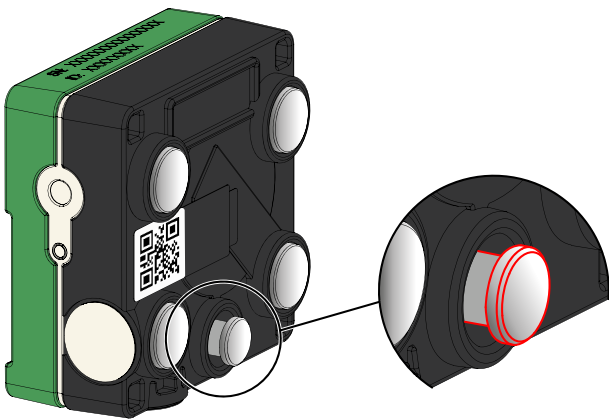
#### EXPOSURE TO HIGH TEMPERATURES

High temperature beyond the sensor rating may cause damage to the sensor.

Failure to follow these instructions can result in equipment damage.

For restricted areas and over non accessible surfaces, sensors must be paired with its associated Access Point before its installation. To associate the sensor, refer to How to set commissioning mode, page 3.

### NOTICE



#### POTENTIAL FOR THERMAL SENSOR DAMAGE

Use caution when handling the ZBRTT1. Do not twist or press the thermal sensor.

Failure to follow these instructions can result in equipment damage.



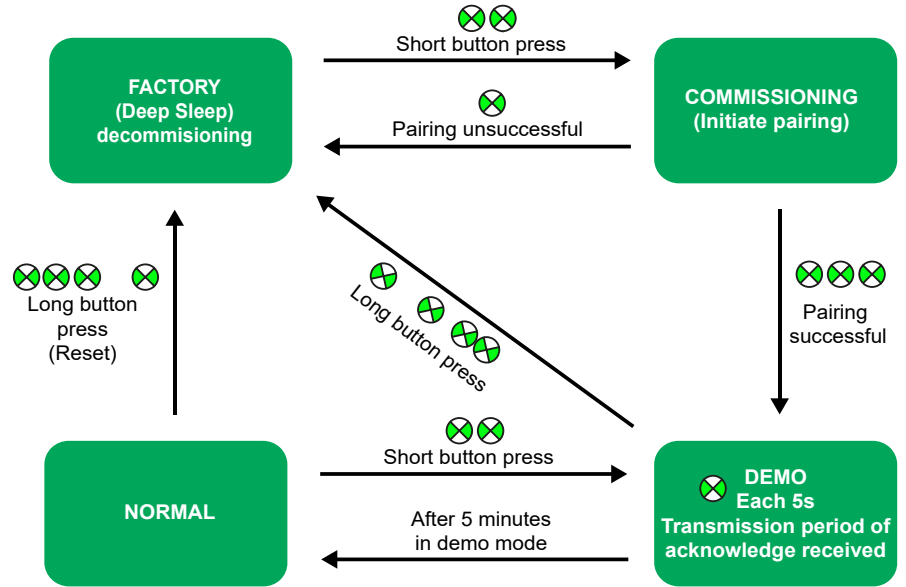
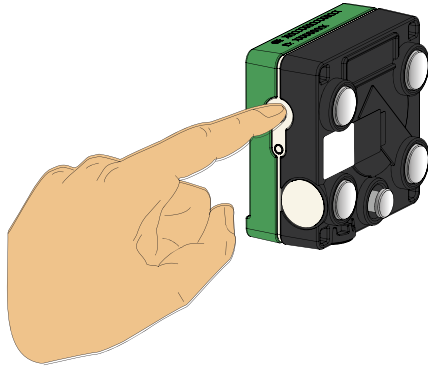
## Operating modes

### NOTICE

#### CYBERSECURITY

- During commissioning phase, the security key will only be exchange one times between the sensor and the ZigBee Green Power access point.
- Use caution where commissioning phase is executed to avoid interception of the key.

Failure to follow these instructions can result in equipment damage.



## How to set commissioning mode

Step	Action
1	Set in "Factory" mode.
2	In your Harmony Hub ZBRN1 or 2 receiver, select your sensor input, then select "L L" as sensor type, and start teaching mode. In your Panel Server receiver, start discovery mode.
3	On the ZBRTT1 short button, press once to start the commissioning. Confirmation is indicated by two Green LED flashes (XX).
4	Wait approximately 20 seconds, • If three LED flashes (XXX), the pairing is fulfilled. • If one LED flash (X), the pairing is not fulfilled, verify if the sensor is in "Factory" mode and in proximity of the receiver, then repeat steps 4 and 5.

### Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference,
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

### Industry Canada Statement

This device complies with RSS-247 of the Industry Canada Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference,
- This device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

- Le dispositif ne doit pas produire de brouillage préjudiciable,
- Ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

#### Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

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Schneider Electric  
8001 Knightdale Blvd,  
Knightdale, NC 27545  
919-266-3671 (phone)



## Technical Characteristics

Rated supply	3 V (battery with 15 years of life pan)
Measured surfaces	Flat area wider than 50 mm x 100 mm (1.96 x 3.93 in)
Power consumption	20 mA during radio transmission mode
	2 µA max in sleeping mode
Wireless communication protocol	Wireless communication IEEE 802.15.4 2.4 GHz.
Transmission period	120 s
Connection type	See associated wireless receiver (ZBRN1/2, Panel Server)
Product weight	0.034 kg (0.074 lb)
Product compliance	CB IECCEC ID: FR_701386 in accordance with IEC/EN 61010-1 2010
	cBVus ID: NHBA
	FCC ID: 2AHP8-130729
	IC: 21245-130729
	LV Directive 2014/35/EU
	EU RoHS Directive 2011/65/EU
	EU REACH Regulation
	EU EMC Directive 2014/30/EU
	EU RED Directive 2014/53/EU
Main standards	EN / IEC 61010-1 2010
	UL 61010 -1 2012
	ETSI EN 300 328 V2.1.1
	IEEE 802.15.4 2013
Power emission	EIRP= +5 dBm
Immunity to conducted RF disturbances	30 V Continuous (0 – 150 kHz) EN/IEC 61000-4-16
	300 V Short duration (0 – 150 kHz) EN/IEC 61000-4-16
Ambient air temperature for operation	-25...70 °C (-13 to 158 °F) +/-1 °C (+/-33.8 °F)
Measured temperature for operation	-25...90 °C at 35 °C for ambient temperature Any measured part shall be lower than IEC limits (IEC guide 117) : 75 °C (167 °F) if the surface is accessible and expected to be touched in normal operation during short duration 50 °C (122 °F) if the surface is accessible and expected to be touched for long duration
	110 °C (230 °F) max (limited time)
Relative humidity measured	10...98 % (Accuracy 2 %)
Relative humidity for use	10...95 % over a period of 24 h condensation may occasionally occur in operation
	10...90 % over a period of one month condensation may occasionally occur in operation
IP degree of protection	IP54 EN/IEC 60529
Mechanical impact	IK06 EN/IEC 62262 (Exposed side vs Measuring side)
Pollution degree	2 IEC 61010-1
Operating altitude	0...< 4000 m (< 13123 ft)
Shocks (ZBRTT1 sensor withstand)	3 shocks 3 directions 40 gn 6 ms (Ea) according to IEC 60068-2-27 (2M3)
	1000 shocks 3 direction 20 gn 16 ms (Ea) according to IEC 60068-2-27
Main standards	EN / IEC 61010-1 2010
Vibrations sinusoidal in operation ZBRTT1 sensor only installed by magnets	5-500 Hz 1 gn 1 cycle (13 min) 3 mm Test Fc, according to IEC 60068-2-6 (3M5 according to IEC 60721-3-3)
Shocks in operation	3 shocks 3 directions 10 g 11 ms (Ea) according to IEC 60068-2-27 (3M5 according to IEC 60721-3-3)
Glow-wire flammability withstand	650 °C (1202 °F)
Maximum distance between sensor and the access point	100 m (328 ft) in free field unobstructed
	25 m (82 ft) when the components are separated by one layer of metal
	10 m (32 ft) when the components are separated by one layer of metal

**en** Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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