Product Data

Tracer® Zone Sensors

Wired/Wireless Communicating

Data Sheet



October 2026

BAS-PRD077A-EN

Introduction

The Tracer® zone sensor brings a wide range of valuable features in one sleek, flexible device. Every model includes accurate zone temperature sensing, with additional models to add space humidity, CO2 monitoring, and occupancy detection for greater insight and control of the indoor environment. A modern touchscreen e-paper display is available for easy interaction, while non-display models offer a streamlined alternative. Designed to work seamlessly with Trane unit controllers, the sensor is available with either wired or wireless communication. Setup is simple and convenient with an intuitive mobile app.

Configurable features include:

- Temperature units: fahrenheit (°F) or celsius (°C)
- Temperature resolution: 1.0, 0.5, or 0.1 degrees
- Ability to display setpoint only (zone temperature does not display)
- Single, dual, or no setpoint
- System settings: auto, off, cool, heat, emergency heat
- Deadband (heat/cool setpoint offset for dual setpoint systems)
- Fan settings: high, medium, low, auto, off
- Timed override request function
- Flexible lockout
- Equipment or device name

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Product Data

Part Numbers

Table 1. Zone sensor part numbers

Model	Description	Part Number	Global Part
ZS-T-E-WL-B	Wireless communication temperature sensor with e-paper display	X13791097001	SEN03649
ZS-TH-E-WL-B	Wireless communication temperature and humidity sensor with e-paper display	X13791097002	SEN03650
ZS-THCO-E-WL-B	Wireless communication temperature, humidity, CO2, and occupancy sensor with e-paper display	X13791097003	SEN03651
ZS-T-E-WR-B	Wired communication temperature sensor with e-paper display	X13791099001	SEN03655
ZS-TH-E-WR-B	Wired communication temperature and humidity sensor with e-paper display	X13791099002	SEN03656
ZS-THCO-E-WR-B	Wired communication temperature, humidity, CO2, and occupancy sensor with e-paper display	X13791099003	SEN03657
ZS-T-N-WL-B	Wireless communication temperature sensor with blank cover	X13791098001	SEN03652
ZS-TH-N-WL-B	Wireless communication temperature and humidity sensor with blank cover	X13791098002	SEN03653
ZS-THCO-N-WL-B	Wireless communication temperature, humidity, CO2, and occupancy sensor with blank cover	X13791098003	SEN03654
ZS-T-N-WR-B	Wired communication temperature sensor with blank cover	X13791100001	SEN03658
ZS-TH-N-WR-B	Wired communication temperature and humidity sensor with blank cover	X13791100002	SEN03659
ZS-THCO-N-WR-B	Wired communication temperature, humidity, CO2, and occupancy sensor with blank cover	X13791100003	SEN03660

Specifications

Table 2. Specifications

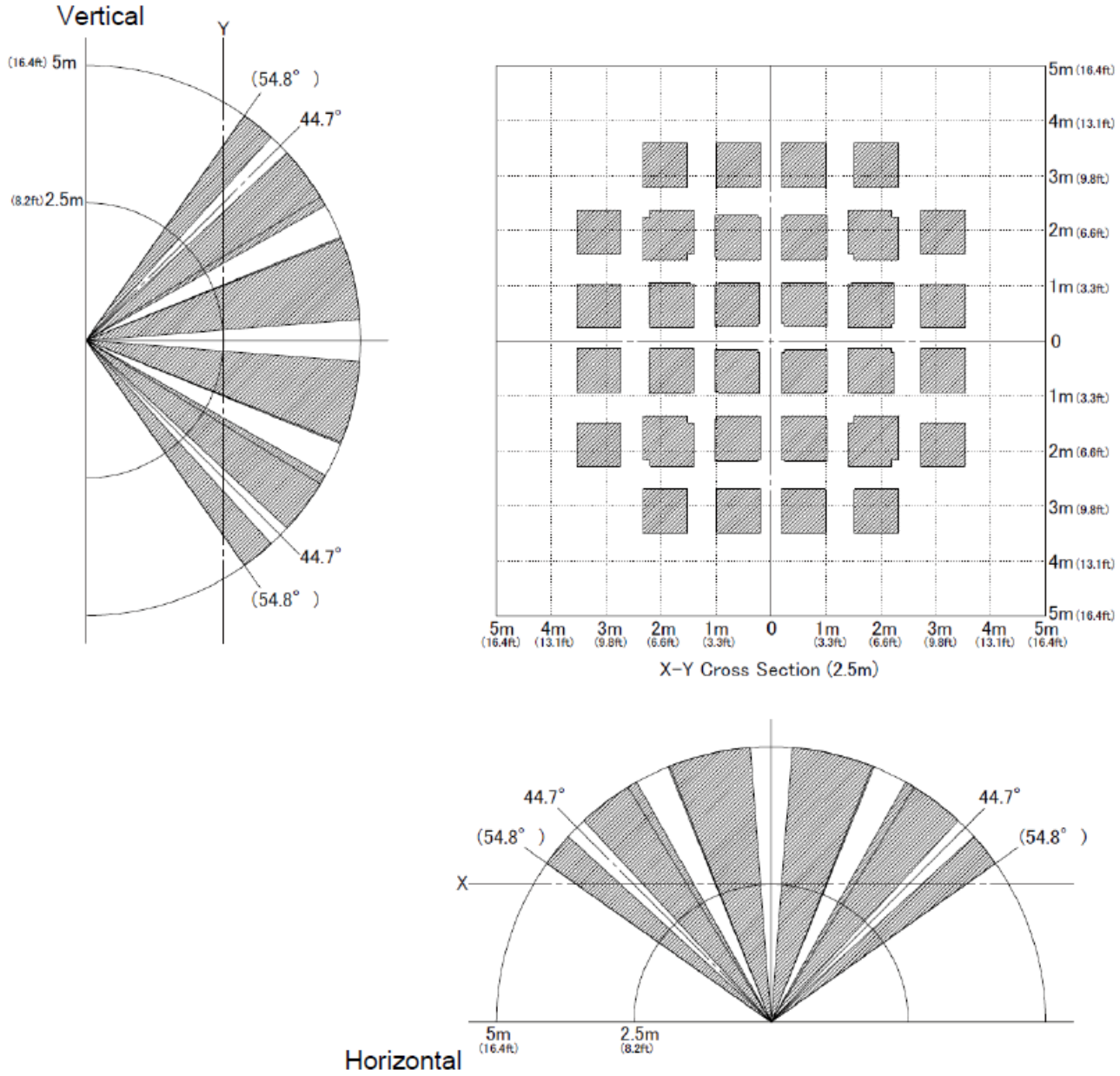
General Specifications	
Storage and operating temperature	32 to 122°F (0 to 50 °C)
Storage and operating humidity range	5% to 95% relative humidity (RH), non-condensing
Housing material	Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend (not suitable for plenum mounting) UL 94: 5 VA flammability rating
Mounting	Fits a standard 2-in. by 4-in. junction box (vertical mount only). Mounting holes are spaced 3.2-in. (83 mm) apart on vertical center line. Includes mounting screws for junction box and wall anchors for sheet-rock walls.Overall dimensions: 2.9-in (73 mm) by 4.8-in. (121 mm)
Wireless Communication Sensor Specifications (wireless sensors only)	
Range	Typical range is 200 ft (61 m); actual range is dependent on the environment.
Output power	100 mW
Radio frequency	2.4 GHz (IEEE Std 802.15.4-2003 compliant) (2405–2480 MHz, 5 MHz spacing)
Radio channels	16
Sensor battery	Two (2) AA lithium 1.5 V batteries, 2800 mAh with an expected life of 10 years under typical operating conditions
Address range	001 to 999
Maximum time between transmissions	15 minutes
Minimum time between transmissions	10 seconds. Time between transmissions can be shorter during user interaction.
Wired Communication Sensor Specifications (wired sensors only)	

Table 2. Specifications (continued)

Voltage	24 Vac/Vdc nominal ±10%. If using 24 Vdc, polarity must be maintained.
Power consumption	< 1.0 VA
Space Temperature Sensor Specifications	
Accuracy	±0.18°F for a range of -40 to 257°F (-40 to 125°C)
Setpoint functional range	45°F to 95°F (7.22°C to 35°C)
Relative Humidity Sensor Specifications (if equipped)	
Accuracy	±1.0 %RH (typical)
Hysteresis	±0.8 %RH (typical)
Response time	4 seconds
Long-term drift	<0.2% RH/year
CO_2 Sensor Specifications (if equipped)	
CO_2 range	0 – 10,000 ppm CO_2
Accuracy	±50 ppm CO_2 + 3% of reading (includes repeatability)
Pressure dependence of output	1.6% reading per kPa deviation from normal pressure
Response resolution	50 ppm change or 15 minute heartbeat
Life expectancy	15 years
Operating temperature	From 32°F to 122°F (0°C to 50°C)
Storage temperature	From –40°F to 158°F (-40°C to 70°C)
Humidity range	20% to 60% RH
Motion Sensor Specifications (if equipped)	
Coverage patterns	See Operating sensor coverage figure
Occupied timeout delay	Average 10 minutes after motion is detected (not adjustable)
Maximum detection range	19.7 feet (6 m)

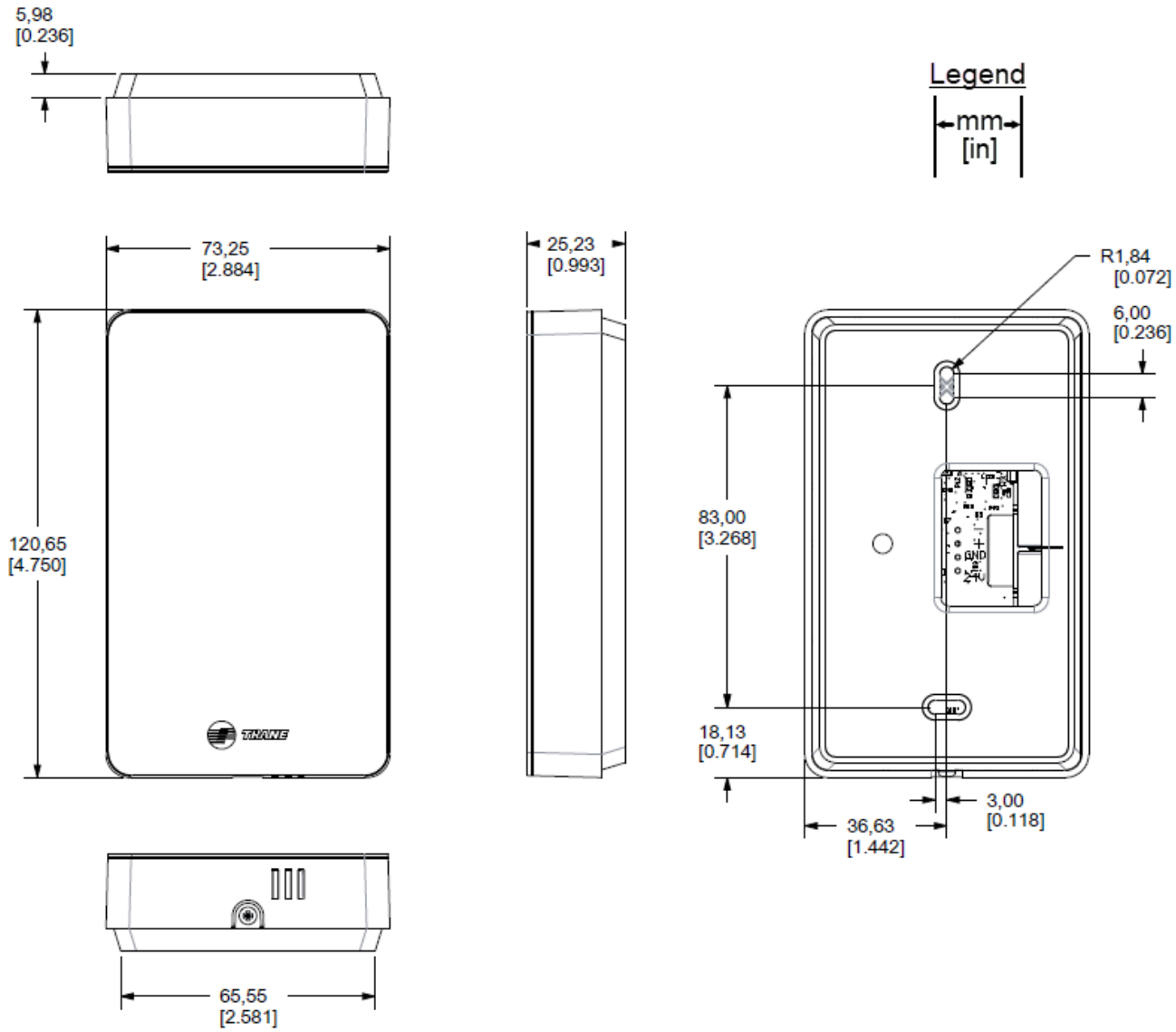
Occupancy Sensor Coverage

Figure 1. Occupancy sensor coverage



Dimensions

Figure 2. Dimensions



Agency Compliance

United States	UL listed: UL 94, 5 VA flammability rating and UL916. Energy Management Equipment FCC CFR47, Sec. 15.247 & subpart E, Digital Modulation Transmission with no SAR (FCC ID: TPF-251701). This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment. ***Notes:*** *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 or more 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.*
Canada	CSA-C22.2 No. 205-M1983 Signal Equipment Industry Canada (IC: 6178A-251701) Cet appareil est conforme à la partie 15 du règlement du FCC. Son fonctionnement fait l'objet des deux conditions suivantes : (1) Cet appareil ne produit pas de brouillages nuisibles, et (2) cet appareil doit pouvoir recevoir n'importe quel type d'interférence, y compris les brouillages pouvant occasionner un fonctionnement non désiré. Les changements et les modifications n'ayant pas été approuvés expressément par le fabricant comme étant conformes, pourraient rendre nulle le droit de l'utilisateur à faire fonctionner cet équipement. **Remarque:** Cet équipement a été testé et reconnu comme étant conforme aux limites des appareils numériques de classe B, tel qu'indiqué dans la partie 15 du règlement du FCC. Ces limites ont été établies afin de fournir un niveau de protection raisonnable contre le brouillage nuisible dans les installations résidentielles. Cet appareil produit, utilise, et peut aussi émettre des fréquences radioélectriques. Si celui-ci n'est pas installé et utilisé conformément aux instructions, il peut provoquer des brouillages nuisibles dans les communications radioélectriques. L'absence d'interférence n'est cependant pas garantie dans toutes les installations. Si cet équipement provoque des brouillages nuisibles dans la réception des communications radioélectriques ou de télévision (ceci pouvant être déterminé en allumant et en éteignant l'équipement), l'utilisateur est encouragé à essayer de corriger l'interférence en utilisant un ou plusieurs des moyens suivants : • Réorienter ou changer l'emplacement de l'antenne réceptrice. • Éloigner l'équipement et le récepteur l'un de l'autre. • Brancher l'équipement à une prise de courant se trouvant sur un circuit différent de celui sur lequel le récepteur est branché. • Faire appel aux services du fournisseur ou d'un technicien radio/TV qualifié.
IEEE/radio frequency range	IEEE 802.15.4-2003, IEEE Standard for Information Technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements, Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (LR-WPANs)

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BAS-PRD077A-EN 31 Oct 2026
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