

PROJECT

TYPE

CATALOG



The low-profile BRI-DT301-BLE-GE dual-technology occupancy sensor combines passive infrared (PIR) and ultrasonic technologies with Bluetooth connectivity, mounting flush to the ceiling for a flat, unobtrusive appearance while delivering 360-degree coverage and convenient wireless control.

OVERVIEW

- Passive IR & Ultrasonic Sensor.
- Bluetooth® SIG mesh.
- LED Motion indicator.
- Mounting height up to 12ft (4m).
- Multi-level, 360° Fresnel lens for superior occupancy detection.
- Low Voltage Connector.
- **Warranty:** 5 years. Full terms at www.bluezonelnc.com/warranty.
- **Factory Reset:** (1) Magnetic reset-hold magnet to side of sensor for 5 seconds. (2) Remote reset-press "RESET" buttons (Remote control sold separately).

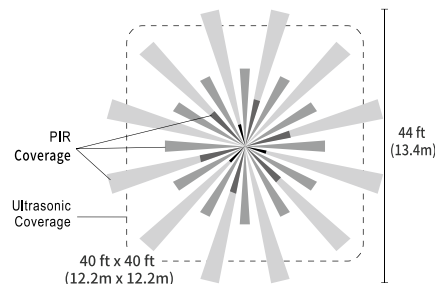


FEATURES AND BENEFITS

- Bluetooth to ON/OFF signal converter, Bluetooth® mesh network.
- Mesh network, offering extended control distance through device-to-device signal relay.
- In typical unobstructed environments, the wireless communication range is approximately 200ft (60m). The actual range may vary based on the installation conditions.
- On-board antenna.
- Pair devices, form groups, establish scenes and schedules, and modify high-trim/dim levels using the Bluezone mobile app available on IOS and Android.
- No gateway or hub required - direct mobile app control.
- Individual address ability and grouping capability.
- Offers multi-level dimming: Manual ON/OFF, Automatic ON/OFF, and Automatic Partial ON/OFF.
- Scene creation and time-clock scheduling for individual lights, groups, or scenes.
- High-Trim / Tuning allows setting the maximum light level for each space.
- AES 128-bit encryption with secure commissioning.

SENSOR DETECTION COVERAGE

Mounting Height (ft)	Max Coverage Diameter (ft)
8'	26'
10'	33'
12'	40'



ORDERING INFORMATION

Part Number	Description
BRI-DT301-BLE-GE	Dual Technology - Line Voltage Occupancy with Bluetooth, White

SENSOR SETTINGS

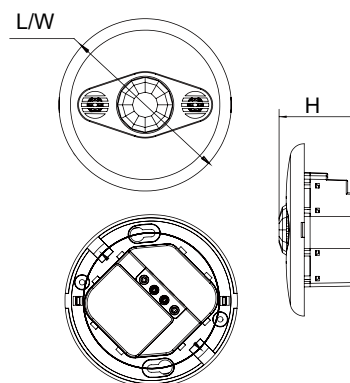
Setting	Range/Default	Setting	Range/Default
Default Sensitivity	100%	Daylight Harvesting	ON/OFF (app configurable)
Hold Time (Occupied)	0-59 minutes	Daylight Threshold	0-1500 lux
Second Time Delay (Dim Hold)	0-59 minutes /infinite	Sensing Type	Occupancy & Vacancy
Brightness when Triggered	1-100% (default 100%)	Detection Horizontal Pattern	360°
Standby Dim Level	1-100% (default 30%)	Detection Range @12ft mount	Up to 44ft diameter
Vacant Action	Off or On at Dim Level		

TECHNICAL DATA

Parameter	Specification	Parameter	Specification
Motion Sensor	PIR+ULTRASONIC	Warranty	5 years
Input Power	120/230 (single phase)/277/347 VAC, 50/60 Hz	Weight	5.326 oz (151g)
Ultrasonic frequency	40kHz	Color / Finish	White
Sensitivity adjustment	High/Low for PIR sensitivity / Ultrasonic sensitivity is variable with trimpot	Enclosure Material	Polycarbonate
Transmission Power	<0.2mW	Wireless Standard	Bluetooth SIG Mesh / BLE 5.0
Mounting Height	12ft (4m) Max.	Mesh Range (node-to-node / commissioning)	100ft/50ft
Detection Angle	360°	Encryption	AES 128-bit
Operating Temperature	-32°F~+131°F (0°C~+55°C)	Mobile App	Bluezone App (IOS /Android)
IP Rating	IP20	Gateway Required	Optional
Max Bluetooth Range	150ft (40m)		

COMPLIANCE & CERTIFICATIONS

Item	Status / Reference
Safety Listing	cULus Listed
DLC NLC Qualified	pending
FCC	Complies with Part 15B - FCC ID:2AVMODT301
Bluetooth Qualification (BQB)	pending
Cybersecurity	ISO 27001, ISO 27017, CSA STAR & ioXt



L (in)	W (in)	H (in)
4.5	4.5	2.09