

BEEKs™ Badge Beacons



PERSONAL BLE BEACONS FOR LOCATION SERVICES AND BUILDING OCCUPANCY

- **Flexible** – Simultaneously supports iBeacon, Eddystone and sBeacon protocol for optimal application compatibility.
- **Multi-Purpose** – Use as BLE Beacon or in combination with any passive access card credential.
- **Rapid Implementation** – Gather real-time location data for building occupancy, mustering, contact tracing or physical distancing.

BEEKs™ Bluetooth Low-Energy (BLE) beacons are among the most advanced beacon badges in the industry. Worn as badges they can provide valuable insights on workplace utilization or help ensuring everyone is safely out of a building in emergency situations.

BEEKs Combo-Badges may be combined with existing passive RFID card badges to support established access control or payment systems. When combined with HID Global’s end-to-end IoT Services ecosystem, that includes BluFi™ BLE to WiFi gateways and the Bluzone™ cloud services, BEEKs can be centrally managed through the cloud to transfer new messages, firmware updates and battery status checks remotely. Their unique design allows BEEKs to broadcast reliably even in densely populated WiFi environments.

When the button on the backside of the BEEKs Duress Badge or the sides of the BEEKs Duress Keyfob are pressed, it will send an alert to the Bluzone Cloud (when in range of a connected BluFi).

It can trigger several reactions like: e-mail as part of policy; alert to screen and alert to report or API call to activate / present an alert on the duress dashboard or customer’s legacy systems. This is typically used for distress or notification signals by the wearer of the badge.

The related dashboard is part of the Bluzone RTLS / Building Occupancy SaaS. The button badge is designed to hold a personalized ISO card (with optional RFID) in horizontal format.

BEEKs Keyfob provides an audible alert in addition to the LED and may be used either for duress applications or for physical distancing applications (BEEKs Aware function) to help keeping people safe from infectious diseases.

The extensible architecture allows organizations to scale deployments of standard beacon applications and extend to centralized management, real-time condition monitoring or location services in a later phase.

TECHNOLOGY HIGHLIGHTS:

- Bluetooth Smart 4.2 compliant beacons
- iBeacon (Apple), Eddystone (Google) and sBeacon HID supported simultaneously
- Location precision down to 6 ft (2 m)
- Central management possible
- Fast and easy roll-out
- Optional combination with any passive credential in ISO card format
- Optional duress button, raising alert when pressed
- Usage options:
 - Personalized (locating individuals) or
 - Anonymously (utilization reports)
 - Contact tracing
 - Physical distancing (BEEKs Aware)

APPLICATION AREAS:
**Building Occupancy
(requires Bluzone™ SAAS)**

- Optimize room occupancy
- Comply to health & safety regulations
- Adjust environmental building conditions based on room utilization





**Real-time location for assets
(requires Bluzone™ SAAS)**

- Quickly locate individuals or assets in an office or campus
- Position based alerting, heat-maps etc.
- Contact tracing, distancing, distress alerting (selected models)

**Emergency Mustering
(requires Bluzone™ SAAS)**

- Quick and efficient counting of people at mustering points in emergency situations
- Central provisioning or monitoring via BluFi and Bluzone optionally possible

SPECIFICATIONS

	BEEKs™ Badge	BEEKs™ Combo Badge	BEEKs™ Duress Badge	BEEKs™ Keyfob
				
Model Number	BVCARD01		BVBBN4B	BEEKSKF
Configuration Types	Standard	Combo	BVBBN4B	Duress / Aware
Part Number	BVBBN4W	BVBBN4WC	BVBBN4B	BVFOB-DURESS BVFOB-AWARE
RF SPECIFICATIONS				
Bluetooth standard/Protocol	Bluetooth Low Energy (BLE) 4.2			
Frequency Band	2400-2483.5 MHz			
Max Output power	<10 dBm (e.i.r.p)			
Number of channels	40			
Modulation	GFSK			
Antenna/gain	integral PCB antenna, OdBi			
Mode of operation	Half duplex			
FEATURES				
BLE Application Supported	Eddystone, iBeacon, sBeacon			
Processor type	ARM Cortex M3 and M0			
Memory	55KB Flash			128 KB flash
Sensors	Motion, 3 axis Accelerometer, step counter		Accelerometer (for energy saving)	
PHYSICAL				
Length x Width	2.14 in x 3.39 in x 0.10 in (54 x 86 x 2.5 mm)	2.19 in x 3.43 in x 0.15 in (55.84 x 87.30 x 3.94 mm)	2.5 in x 3.5 in x 0.19 in (64 mm x 89 mm x 5 mm)	2.79 in x 1.67 in x 0.57 in (71 mm x 43 mm x 15 mm)
Mounting Method	Clip			
Housing Material	Polycarbonate and ABS			
Color	White			White
Weight	0.5 oz (14 g)		0.85 oz (24 g)	1.3 oz (37 g)
BATTERY				
Type	Six CR2016, rated at 90 mAh each. Total 540mAh			3.0 V / CR2477 Coin Battery (replaceable)
Life	up to 4 years		up to 3 years	up to 4 years (Duress use), up to 8 months (Aware use)
CHEMICAL AND MECHANICAL RESISTANCE				
Water	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h		IP65	
Withstands Exposure To	Water and UV resistant			
THERMAL				
Storage	-22° to +170° F (-30° to +77° C)			-4° to +158° F (-20° to +70° C)
Operating Temperature	-22° to +170° F (-30° to +77° C)			-4° to +158° F (-20° to +70° C)
OTHER				
Standards	FCC / CE			FCC / CE / IC / MIC
Options		Semi-finished product, requires separately purchased ISO card to be glued on front-side (one-time)	When alarm is activated, it will send an alert to the Bluzone Cloud (when in range of a connected BluFi). Possible alert reactions: 1) email as part of policy; 2) alert to screen and to alert report 3) API call to activate / present alert on custom dashboard or customers legacy systems. 4) LED on device will blink 5) Audible alert on BEEKs Keyfob	
Aware Functionality	No	No	No	Yes (BVFOB-AWARE)
Box Size	10 pcs.			
Warranty	1 year			