

Sense Industrial

Blending the power of high performance IoT with ultra robust devices that are built to last in harsh industrial environments.



The Sense Asset beacons are robust and durable Bluetooth® Low Energy beacons for indoor and outdoor use. Their waterproof, ultra-rugged construction with impact ratings up to IK11, makes them ideal for industrial IoT applications in harsh environments, such as yard management, construction, oil & gas, etc.

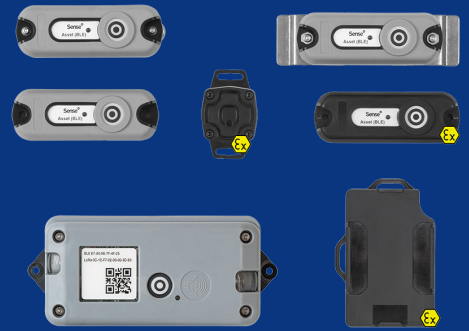
The HID Sense industrial active tags are available in various standard protocol versions.

- Standard Bluetooth® Low Energy Eddystone or iBeacon — To act as anchors for indoor navigation, equipment identification or advertising systems
- Omni-ID — Similar to Eddystone, but broadcasts additional information like battery level, moving/stationary indicator, temperature and FW version in the advertisement

Sense Asset is a rugged general-purpose Bluetooth LE beacon to act as anchor for wayfinding or information advertising systems in harsh indoor or outdoor environments. The Sense Badge Holder is designed to hold standard ID cards with or without RFID and add real-time location capabilities.

Sense Lite is a powerful small form factor asset/personnel tracker device. It benefits from a user replaceable battery which allows the product to be serviced in the field and extends the product life. The Sense Lite comes in a number of different attachment options including adhesive, rivets and cable ties for asset tracking or via lanyard if used as a personnel tracker.

Sense Asset+ is a ultra-rugged active device that support Bluetooth LE for indoor short-range and LoRaWAN for Outdoor long-range applications. its built-in GNSS support allows tracking its position without nearby gateways (see separate datasheet for details). Many models are available with an optional Ex certification for use in potentially explosive environments. These models have a black housing made of special anti-static rugged plastics.



KEY BENEFITS

- **Bluetooth® Low Energy** — for indoor positioning as well as activating alert
- **Rugged Design** — supports heavy-duty indoor and outdoor use
- **Bright LED** — for help quickly identifying individual assets

TECHNOLOGY HIGHLIGHTS:

- Rugged form factors
- Optional Ex certified versions
- GNSS and LoRaWAN for outdoor positioning (Sense Asset+)
- Multiple fixation options
- Multiple Bluetooth LE protocols supported

APPLICATION AREAS:

- Manufacturing facilities
- Warehouse management
- Container management
- Facilities management
- Ports construction and mining
- Asset management
- Yard management
- Hospitals
- Personnel tracking

	Sense Industrial Beacons - BLE			
	Sense Asset	Sense Badge Holder	Sense Lite V2	Sense Asset+
				
Part Number	CP17041 CP17042 (Cable Tie) CP17043 (Magnet)	CP17555 (Portrait) CP17556 (Landscape) CP17557 (Portrait & Landscape)	CP17693 (Three-in-one) CP17705 (Lanyard) CP17690 (Rivet) CP17691 (Cable Tie)	CP18934 Sense Asset+ - US - Grey - Rivet/Cable Tie - Battery CP18938 Sense Asset+ - EU - Grey - Rivet/Cable Tie - Battery
	RF SPECIFICATIONS			
Radio Protocol	Bluetooth Low Energy 5.1			LoRaWAN 1.0.4, LoRa,Bluetooth LE, NFC, GNSS
Frequency supported	2.4 GHz, Bluetooth LE Adv Ch: 36, 37, 38			LoRa: 866-868 MHz (EU), 902-928 MHz (US) Bluetooth LE: 2.4 GHz
LoRa Class Supported				Class A operation (default), Class B can be used for Low latency activation of alerts over LoRa and position update request, Class C can be used for FUOTA
Beacon Rate	Configurable idle state, moving state and button press			Configurable LoRa Heartbeat (1-255hrs), Movement start LoRa Beacon (Based on acelorometer activity), New position LoRa Beacon, 2.5/ 5/ 10 sec (Bluetooth LE)
	FEATURES			
Sensors	Accelerometer, Push button, Temperature Sensor			Accelerometer, GNSS
Temperature Sensor range	-20°C to +60°C, accuracy +/- 2°C			
Indicators	Red LED			Bright Green LED & Buzzer
Bluetooth LE Application Supported	Eddystone, iBeacon, Omni-ID			Omni-ID
	PHYSICAL			
Length x Width	3.74 in x 1.34 x 0.82 in (95.1 x 34.2 x 21 mm)	Portrait: 3.79 in x 2.27 x 0.31 in (96.4 x 57.9 x 8 mm)	1.45 in x 1.45 x 0.50 in (36.9 x 36.9 x 12.8 mm)	5.32 in x 2.72 x 1.29 in (135.3 x 69 x 33 mm)
Mounting Method	Rivet, Cable Tie or Magnet	Lanyard	Lanyard, Rivet, Cable Tie or 3 in 1	Rivet Attachment, Mechanical (std)
Housing Material	TPE overmolded 2 Part Polycarbonate Case	2 Part Polycarbonate Case		Overmolded shock resistant TPE
Color	Grey / Black (Intrinsically Safe)	Black		Grey
Weight	1.95 oz (55.3 g) (without Magnet & Cable Tie)	1.19 oz (34 g)	0.65 oz (18.5 g)	7.8 oz (222 g) (without Rivet & Cable Tie)
	BATTERY			
Type	1200mAh Non replaceable prismatic LiMnO2	1300mAh Non replaceable prismatic LiMnO2 Battery	Panasonic CR2032 3V 225 mAh (Replaceable)	2x replaceable AA
Lifetime (depending on utilization)	Up to 8 years	Up to 6 years	Up to 1.5 years	Up to 3 years
	CHEMICAL AND MECHANICAL RESISTANCE			
Water	IP68			
Impact Resistant	10kg from 1m - IK11	2kg from 1m - IK08	1.5kg from 1m - IK08	4kg drop from 1m - IK09
Drop Test Validation (Non ATEX/IECEX)	1.2m to concrete (18 drops validated, 3 per face)	300 drops, 1.2m to concrete	500 drops, 1.2m to concrete	500 drops, 1.2m to concrete
Compression Top Down	>2000kg			>2000kg
Vibration & Shock	MIL-STD 810H			
Button Press Validation	Up to 25k single press validated	Up to 25k single press validated. 4K button press Push and hold for 7 sec validated	Up to 25k single press validated	
	THERMAL			
Storage	-40° to +140° F (-40° to +60° C) / ATEX IECEx Version -40° to +131° F (-40° to +55° C)	-4° to +140° F (-20° to +60° C) / ATEX IECEx Version -4° to +131° F (-20° to +55° C)		-4° to +140° F (-20° to +60° C)
Operating Temperature	-40° to +140° F (-40° to +60° C) / ATEX IECEx Version -40° to +131° F (-40° to +55° C)	-4° to +140° F (-20° to +60° C) / ATEX IECEx Version -4° to +131° F (-20° to +55° C)		-4° to +140° F (-20° to +60° C)
	OTHER			
Standards	FCC / CE / IC / ATEX - IECEx		FCC / CE / IC / ATEX - IECEx	FCC / CE / IEC 62368-1 / EMC / SAR
Options	ATEX/IECEX PN:CP17299 Cable Tie - ATEX/IECEX PN: CP17982 Magnet - ATEX/IECEX PN: CP17981	Portrait - ATEX/IECEX PN: CP17946 Landscape - ATEX/IECEX PN: CP17063 Portrait & Landscape - ATEX/ IECEx PN: CP17263 Semi-finished product, requires separately purchased ISO/IEC 7810 ID-1 (CR-80) card badge	Lanyard - ATEX/IECEX PN: CP17287 Three-in-one - ATEX/IECEX PN: CP17291 Rivet - ATEX/IECEX PN: CP17290 Cable Tie - ATEX/IECEX PN : CP17289	CP18078 Sense Asset+ - US - Grey - Cable Tie CP18079 Sense Asset+ - US - Grey - Rivet/Cable Tie CP18933 Sense Asset+ - US - Grey - Cable Tie - Battery CP18935 Sense Asset+ - EU - Grey - Cable Tie CP18936 Sense Asset+ - EU - Grey - Rivet/Cable Tie CP18937 Sense Asset+ - EU - Grey - Cable Tie - Battery
Box Size	5 pcs	35 pcs	25 pcs	5 pcs
Warranty	1 year*			



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*These devices contain lithium thionyl chloride (Li-SOCl₂) cylindrical battery (bobbin cell); please observe the safety measures to protect your warranty and ensure safe operation.



For more information, contact iotsales@hidglobal.com