

BLE Beacon with Railroad Approval, HL3 & Security

RailTAG



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WP 4000-350RT Series



Dimensions & Weight (Approx.)

Height	20 – 25 mm, Dep. on battery type
Width	69 mm
Depth	41 mm
PCB Dimensions	35 x 64 x 4 mm
Weight Total	85 gr - 130 gr Dep. on battery type
Weight PCB	Approx. 18 gr

Battery

Model Options	a- Button Cell b- AA Size c- AAA Size
Number Options	1-2
Replaceable	Yes
Operating Range	2.0 – 3.3V
Battery Life	2 - 7+ Years
Activation	Separator strip

Electronics

Microcontroller	Nordic NRF52
Memories	Flexible
Operation	3.3V

Radio, Protocols & Security

Radio Standard	Bluetooth, BLE More on Request (LoRA, UWB etc.)
Radio Range	Up to 100 m
Protocol Options	Eddystone, UID/EID, iBeacon, ALT Beacon, Individual Formats & Hybrid Formats

Firmware, Security & Configuration

Standard Firmware	Yes
Individual Firmware	Yes
Config from factory	Yes
Hardware Security	Yes, Magnetic Switch
Mass Configuration	Yes (On delivery)
Individual Configuration	Yes, OTA by App
Update	Yes, OTA by App

Enclosure

Material	PC Lexan945U	Cover Attachment Options	A. Screws (4 top) B. Screws (4 bottom)
Color Options	White / Black / more on Request	Wall mounting Option	Yes
Protection Options	IP 40 / IP 65 Flame resistant, HL3,	Seal Options	Yes
Water resistant for easy cleaning	Yes	Pressure compensation Option	Yes
		Mounting Options	Screwing, Gluing, etc

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Certification

CE, Radio Equipment Directive 2014/53/EU (CE RED), IEC, EN 50121-3-2, EN 55011, EN 61373, EN 60695, EN 61000-4-6, EN 45545, DIN EN 50155, EN 45545 (Hazard class R22 - HL3), EMC, IPC, ISO, REACH, UL, DIN, NFPA

Product Identification

Product Sticker	Yes
Individual Sticker	Yes (Option)
Unique ID	Yes
GS1	Yes
QR Code	Yes
Individual Content	Yes

Sensors & Interfaces

A large number of sensors can be optionally integrated into the device. This then requires partial modifications of the housing in order to ensure the validity of the respective measured values. Details on request.

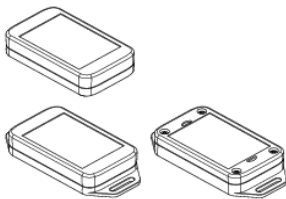
References

RailTAG Beacon technology is already installed thousands of times by leading international rail manufacturers as well as used by national rail operators on daily basis.

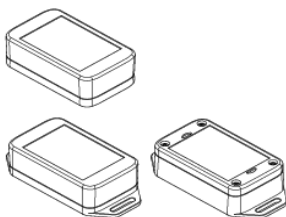
Flexible Enclosure Concept

Enclosure size

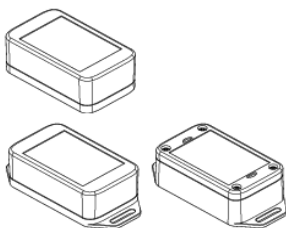
BL 704015...



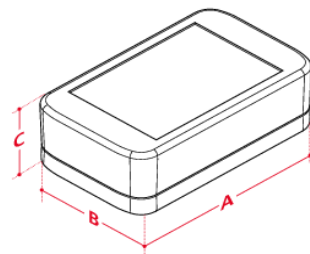
BL 704020...



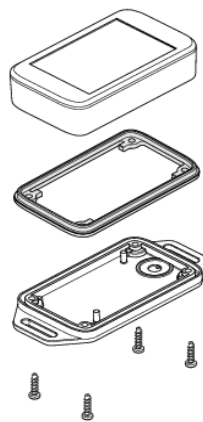
BL 704025...



Design type

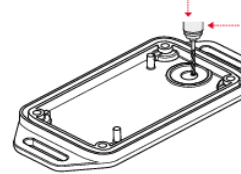


Lid fixing below (BL...)

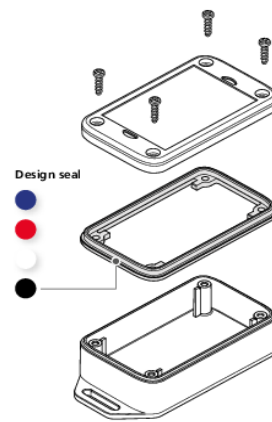


Pressure compensation membrane DAE

- 1 Drill through enclosure
- 2 Insert pressure compensation membrane



Lid fixing on top (BL...DO)



Design seal



Dimensions

Model	A	B	C
BL 704015...	70.4	42.4	15.5
BL 704020...	70.9	42.9	22
BL 704025...	71.2	43.2	26

Accessories



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Enclosure without Wall Brackets (Screws below)



Enclosure with Wall Brackets (Screws below)

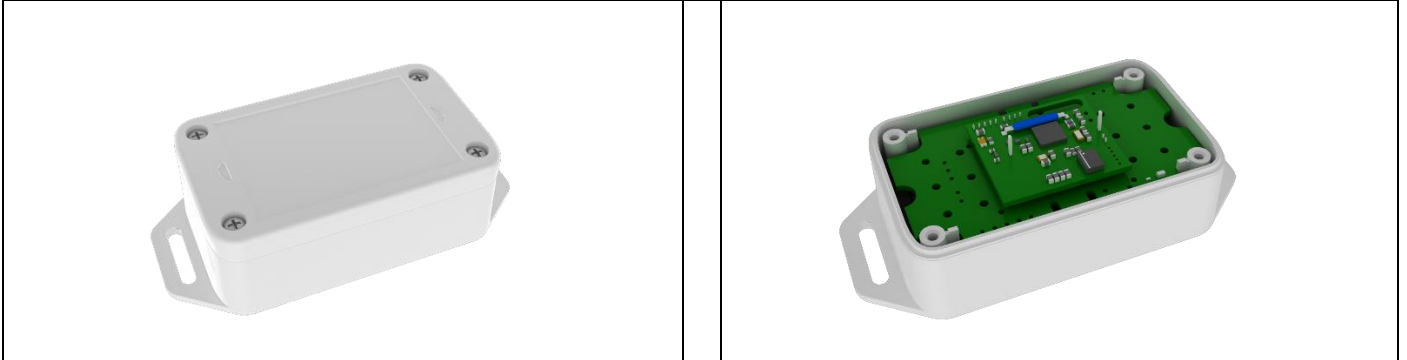


Enclosure with Wall Brackets (Screws top)



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PCB Enclosure Concept



PCB Concept for multiple Battery Types

