

PRODUCT

NAO[®] BLUESPOT V4 INDOOR

DATASHEET

Bluetooth[®] 5.0 Low Energy Beacon with iBeacon technology¹.

The 4th generation of the most **reliable** beacon on the market, compatible with **Bluetooth[®] 5** and up to **10 years** of battery life.

With more than 8 years of field experience, we designed a **reliable industrial solution**, allowing for best performance on iOS[®] and Android[®]. More than **350** clients and partners worldwide chose Pole Star beacons, representing more than **130,000** active beacons.

The NAO[®] BlueSpot V4 is a key component to the NAO[®] Suite to cover all your use cases, from mobile navigation to asset tracking.



¹ iBeacon technology creates a small area of detection where customized notifications can be sent to iBeacon-enabled apps on iPhone, iPad, or iPod touch devices that support Bluetooth 4.0 technology. See <https://developer.apple.com/ibeacon/>

Note: pictures are not contractual. Pole Star reserves the right to modify the product without notice

FEATURES



5 to 10 years of battery life depending on configuration with 1 or 2 battery cells, with **default** value of advertising frequency and advertising power, and running in **wide range of temperature and humidity conditions**². Working with high quality battery cells, the Saft LS14500, and optimized energy usage. Batteries are **replaceable**.



Plug & Play. Beacons are configured at manufacturing so that you can install and activate them right away.



5

Radio **Bluetooth® 5**.



Uses Apple® **iBeacon**, or alternative formats such as **Eddystone** or proprietary («**custom advertising**»).



Secure. Integrated Secure Mode. Relies on the most recent cybersecurity guidelines.



Connected. Life status visible on site with NAO® Logger mobile application, or remotely with your NAO® Cloud dashboard relying on the NAO® SDK or integrating connected infrastructure.

Evolutive. “Over The Air” updates of firmware parameters or for complete upgrade.



Worldwide market. Wherever your project is, the NAO® BlueSpot V4 will be with you. Certified for EU, USA/Canada, Australia/New Zealand, and UK.



Quality. Designed and assembled in France, all our products are tested before delivery.

Warranty. All our products have a 1 year warranty.

² Running with one or two 2500 mAh batteries, 24/7/365, 20°C, with the standard configuration profile (850ms interval advertising, full RF power).

SPECIFICATIONS

Dimensions & Weight	Dimensions	63 x 56 x 18 mm
	Weight	30g w/o batteries, 70g with two batteries
Casing	Material	ABS
	Color	White (RAL9003)
	Mounting	Zip ties / Screws: x2, Ø3 mm, countersunk, cross type / Adhesive tape
Power supply	Format	AA/LR6, x1 or x2 depending on configuration, replaceable
	Technology	Lithium (Li-SoCl ₂), not rechargeable
	Voltage & Capacity	3.6V, 2500 mAh
Battery life	Standard NAO® profile (iBeacon)	5+ years (850ms interval, 0 dBm, 20°C), with 1 battery
		10+ years (850ms interval, 0 dBm, 20°C), with 2 batteries
Advertising	Advertising	Apple® iBeacon mode (default), Google® Eddystone UID, custom
	Configurable	Yes
	Shuffled IDs and MAC	For encrypted advertising.
	Additional data	Health monitoring data (proprietary) including remaining lifetime, system flags)
RF performance	Range (typical)	> 100m outdoor, free space / 25m indoor, variable.
	Transmitted RF power	-27 dBm to +8 dBm max.
	RSSI readings	-54 measured at 1 meter ³ .
Peripherals	LED	Missing or failing battery detection. Hardware and software health test.
	Temperature sensor	+/- 5°C
Environmental	Temperature	-40°C / + 82°C ⁴
	Humidity	0 à 99 %
Certifications	Protection	IP54
	RoHS/REACH	2017/2102/CE (2017-11)
		2018/35/CE (2018-01)
	EU (CE)	EN 301489-1 V2.2.3 2019-11
		EN 301489-17 V3.2.4 2020-09
		EN 300328 V2.2.2 (2019-07)
	USA/CA (FCC/ISED)	EN 62479 : 2010
		FCC 47 CFR Part 15 : 2020
		ICES-003 / NMB-003 édition 6 : 2016 with modification of 2017 ICES-Gen / NMB-Gen : 2018
Australia/NZ (ACMA)	AS / NZS 4268 : 2017	
UK (UKCA)	SI 2017/1206 Schedule 3 Module B	

CONTACT US

Support	support@polestar.eu	EMEA offices	Pole Star SA 11, rue Paulin Talabot 31170 Toulouse – FRANCE +33 (0) 534 609 520	US offices	Pole Star USA Inc Industrious Chicago 233 South Wacker drive -Suite 4400, 44th floor Chicago IL 60606 – USA +1 650 285 3338
Regulatory	regulatory@polestar.eu				
Website	http://www.polestar.eu				

³ Measured as specified and described in the Apple iBeacon Proximity Beacon Specification – Release R1 (2015/09/04).

⁴ Expected battery life should be drastically reduced when continuously operating at extreme temperatures.