

Datasheet – XSpot beacons



Indoor geolocation

Inside industrial buildings, geolocation by satellite can be difficult or even impossible. In these cases it is possible to use XSpot tags to ensure positioning.

A few beacons can be installed to identify crossing points and isolated areas. Accurate positioning can be achieved by crisscrossing the building with more beacons.

The position of an alert located with XSpot beacons appears on the building plan. If the building has several floors, this is specified.

Range and precision of geolocation

The range is around 30m in the absence of obstacles, and around 10m inside buildings if the mesh is dense enough.

Accuracy can be increased with short range beacons.

Other usages

Beacons can be assigned a Danger, Inhibition or Confidential function.

Danger function: the soles vibrate as soon as they enter the zone of the beacon.

Inhibition function: the insoles do not trigger a Loss of verticality alert in these areas.

Confidential function: the soles do not communicate in these areas.

Mechanical characteristics

Hardened and waterproof case

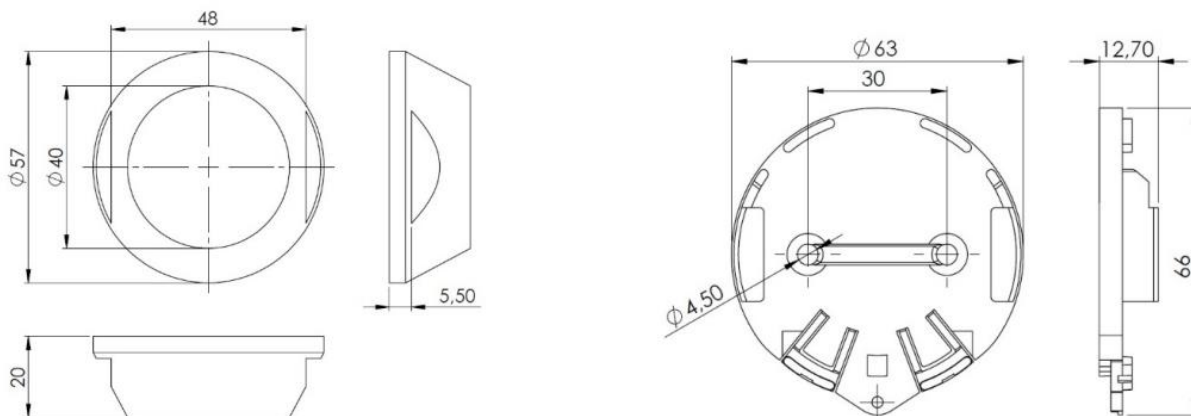
Material: DELRIN (POM C) food grade (90/128/EEC) - RoHs

Protection index: IP68

Dimensions (with stand): diameter 63mm – height 27mm

Weight with batteries: 41g

Fixing: By double-sided adhesive tape on the back of the support (supplied) or by screws



Balise

Stand

Radio characteristics

Protocole : Bluetooth Low Energy 2,4GHz

Power : up to +4dBm

Range / Resolution: Between (2m / 50cm) and (30m / 10m) *depending on environment density and settings*

Electrical characteristics

Power: internal battery 3 V

Autonomy: ~ 5 years

Certification : CE EN300328, EN301489 & EN 55032 / EN 62368-1

Temperature of use: from -40°C to +85°C