

SAMCLA


Infinite



SBDseries

DATASHEET




ENGLISH v2404

Description

PROXIMITY SENSOR

- Ultrasound sensor.
- Max distance: 2.5 m / 8 ft .
- Applications: Waste bin level monitoring / Tank level monitoring.
- Only for Infinite HUB architecture.
- Integrated antenna.
- Small size.
- Secure communications.
- Bidirectional communications.
- Easy to install.
- Very long battery lifetime.
- Ultra low sleep mode power consumption. This allows to stock devices for a long time once battery protecting tab is removed.

SUPPLIED PARTS

SBD UNIT [mm]		2 X AA BATTERY
		

ORDERING INFORMATION

MODEL	REFERENCE	DESCRIPTION
SBD 02 00	SBD200B8P	PROXIMITY SENSOR

Technical specifications

MECHANICAL SPECIFICATIONS

Enclosure	ABS
Operating temperature range	-15°C to 55°C / 5°F to 131°F
IP Protection	IP66
Weight (approx.)	198g / 7oz

ELECTRICAL SPECIFICATIONS

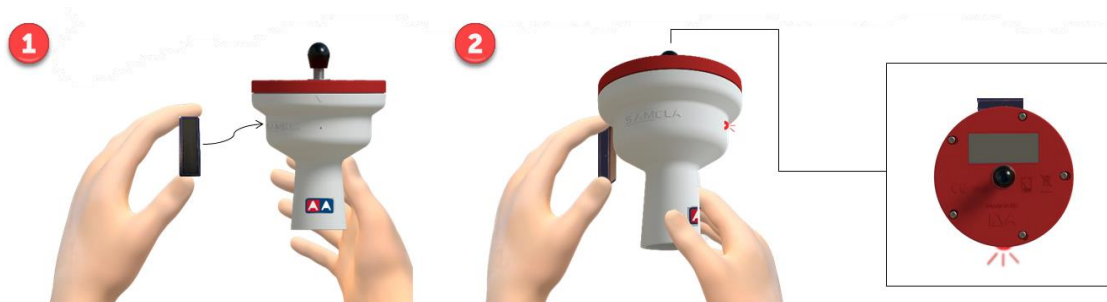
Power supply	2 x AA Battery
Proximity sensor	Ultrasound
Max distance	2.5m / 8ft
Dead zone	40cm / 16in
Distance resolution	4cm / 1.6in
RF range (open area)	1000m / 3281ft
RF Band	868MHz Free SRD band

STATUS LEDS

Info led	Red color	Blinks twice: Restart.
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SLEEP MODE

- Approach a magnet as shown below and info led will turn on. Maintain the position until the led turns off. Then remove the magnet. Default settings will be reloaded and device will turn to Sleep Mode.



- In order to wake up the device, repeat previous action, but now remove the magnet just the led turns on. Led info will blink twice. Device is ready to install.

Installation

PRELIMINARY

- Device must be powered.
- Remove battery protection (plastic tab). If the device has no battery protection because it is in sleep mode, restart the device by using the magnet as shown before.

SET UP

- Set up can be managed from both, the web application and the Infinite HUB APP. Proceed as shown below, following screen indications in each case.
- Add the new device to the Samcla Smart Platform and choose a location on the map. Only device PSN (290...) is required for this action.
- Select the operating area from the list.
- Assign a bin model from the list.
- Connect the new device to the RF network. Choose the parent node (the last REP or the HUB if no REP is required) and click connect button.
- Enable the new device by clicking enable button.
- From now on, the connectivity test function is available as many times as needed.
- It is recommended to enable the Energy Savings operating mode in order to improve significantly the battery lifetime. Communications to the device are not allowed in this operating mode.
- Back to Non Energy Savings operating mode is always possible.

FAQ'S

I get "Terminal equipment not responding" error during network connection.

Move new device closer its parent node and try again.

All installation steps have been accomplished successfully, but I get nor RF level neither battery level in the dash board, even after a connectivity test.

Information will be automatically updated during device next communication.

I am trying to turn the device to the sleep mode, but info led remains blinking instead of remaining on.

Magnet has been removed too fast and the device has turned into service mode. Please wait for around 30 seconds until the led turns off and try again.

Energy Savings operating mode has been disabled, but communications to the device are not allowed yet.

Device will be ready after the next communication to the platform. The dashboard info will be updated after the second communication.

Notices and Licenses for Software

Please, refer to <https://oss.samcla.com> for more information.

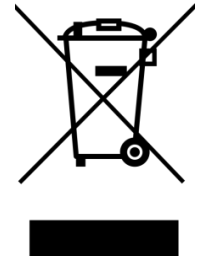
Certificate of Conformity to European Directives

SAMCLA - ESIC, S.L. declares under its sole responsibility that the SBD reference SBD200B8P complies with the standards of the European Directives of "Radio Equipment" (2014/53/EU).



Waste electrical and electronic equipment

This symbol (right) is shown on this product. It indicates that the product should not be disposed of with regular household waste, but should be disposed of separately. Electrical and electronic equipment can contain materials that are hazardous to the environment and human health and therefore should be disposed of at a designated waste facility or returned to your retailer for the appropriate recycling to take place.



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