




Adding a Shore Power Plug-in Sensor

Install, connect, and configure a Shore Power Plug-in Sensor to BRNKL to monitor shore power.

 30 min



Before you start

Take a moment to consider
if this guide is for you.

If you're comfortable handling everyday electrical repair and maintenance tasks on your boat, follow the instructions in this guide.

If your boat electrical system is complex, or you're unfamiliar with basic electrical systems, hire a professional installer or marine electrician.



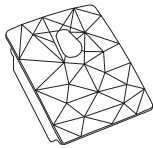
WARNING: Working with AC power is dangerous. Hire a licenced electrician or certified professional installer to prepare AC power wiring and make electrical panel connections.

What you need

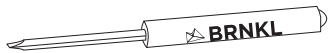
You need these things to add the Shore Power Plug-in Sensor to BRNKL:

In the box

- BRNKL
powered and positioned

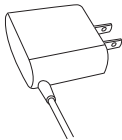


- 2.5 mm flathead screwdriver



Accessories *sold separately*

- Shore Power Plug-in Sensor



Services

- BRNKL account
- BRNKL subscription

Devices

- mobile device connected to internet (BRNKL installed)

Tools

- wire stripper/crimper tool

You may need:

- power drill and bit set
- non-conductive fish tape
- flashlight or headlamp

Supplies

You may need:

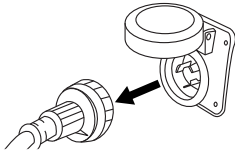
- cable ties
- cable tie mounts

Install and connect Shore Power Plug-in Sensor

To install and connect the Shore Power Plug-in Sensor, follow these steps:

Ⓐ Disconnect shore power

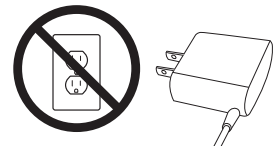
- Disconnect the boat AC shore power connection.



Ⓑ Select AC power outlet

Follow these guidelines:

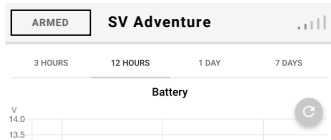
- Select a shore-powered AC power outlet:
 - Located within 1 m of the BRNKL when using supplied cable.
 - Lengthen the cable if required.
 - Not connected to a power inverter.
 - Not dedicated to another device.
- DO NOT insert the shore power plug into the outlet at this stage.



Ⓒ Disarm BRNKL

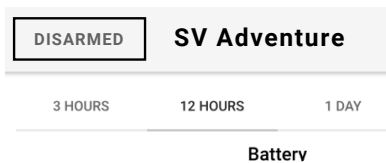
On the mobile device:

1. Open BRNKL.
2. From the **Map, Graphs, Photos,** or **Alerts** view, go to the status bar.



3. Do one of the following:
 - If the status is **DISARMED**, do nothing.
 - If the status is **ARMED**, select the status bar to disarm.

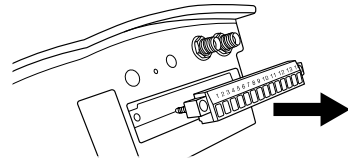
BRNKL is disarmed when the status is **DISARMED**.



Ⓓ Remove connector

On the BRNKL:

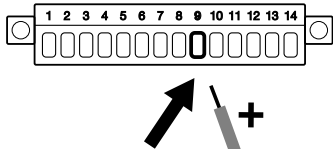
1. Locate the connector on the bottom of the BRNKL.
2. Loosen the screws at each end of the connector.
3. Grasp and pull.



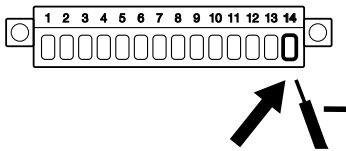
Ⓔ Connect wiring to connector

At the open wire end of the plug-in sensor:

1. Trim any extra wire.
2. Strip 5 mm of insulation from end of the **black [+]** and **striped [-]** wires.
3. On the connector, loosen the screws above **slot 9** and **slot 14**.
4. Insert the **black [+]** wire into **slot 9**.



5. Insert the **striped [-]** wire into **slot 14**.

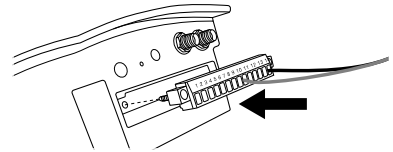


6. Tighten the screws to fasten.
7. Secure the wires.

Ⓕ Reattach connector

At the BRNKL end of the wiring:

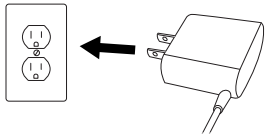
1. Align the connector and the BRNKL.



2. Insert the connector.
3. Tighten the screws to fasten.

Ⓒ Insert plug-in sensor

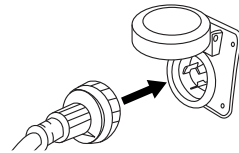
1. Insert the plug-in sensor into the AC power outlet.



2. Secure the wire with cable ties and mounts.

Ⓓ Reconnect shore power

- Reconnect the boat AC shore power connection.



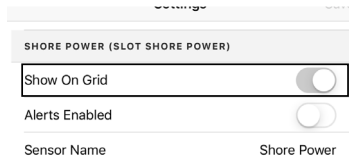
Configure shore power sensor connection

To configure a shore power sensor connection, follow these steps:

A Enable connection

On the mobile device:

1. Open BRNKL.
2. Go to **Settings > Sensors > Shore Power**.
3. Turn on **Show On Grid**.



4. Turn on **Alerts Enabled**.



5. **Save**.

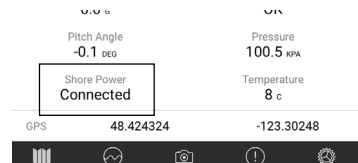
B Check connection

Wait 15 minutes after enabling the shore power connection to allow BRNKL to sync settings over the mobile data network.

On the mobile device:

1. Open BRNKL.
2. Select grid view, go to

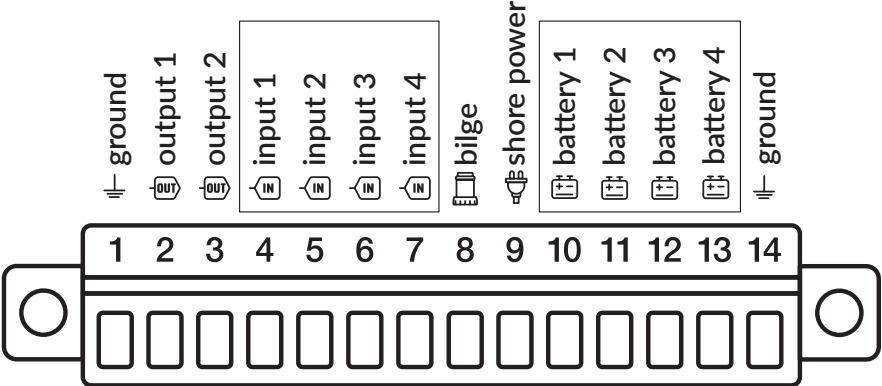
Shore Power.



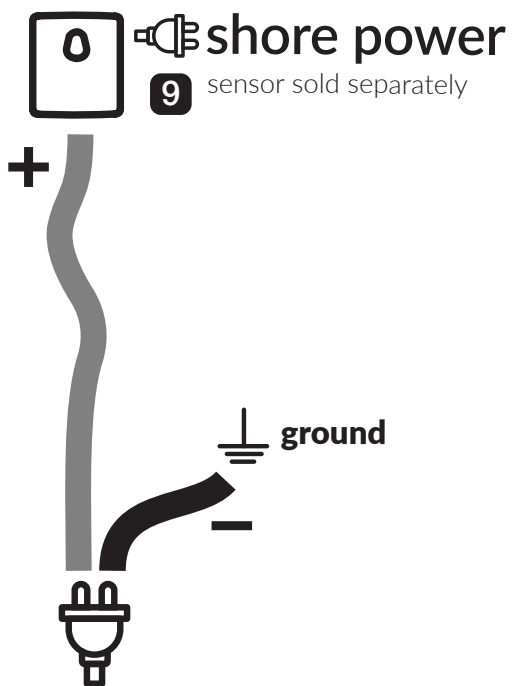
BRNKL displays **Connected** when connected to shore power.

Wiring reference

Connector



Shore power





For warranty, terms and conditions:

brnkl.io/terms

For technical support, troubleshooting and more information:

help.brnkl.io

1-877-552-BRNKL (7655)

FCC / Industry Canada Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3 (A)/NMB-3(A) – This Class A Digital Apparatus Complies with Canadian ICES-003. Cet Appareil numérique de la classe (A) est conforme à la norme NMB-003 du Canada.



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