

SureCross DX81 FlexPower Supply Module



Delivers and manages dc voltage from one 3.6V dc lithium primary battery

Features



- Wireless solution for powering a FlexPower™ Node and sensor device
- Unique power management system to run the FlexPower Node and a device through switched power outputs for up to five years, depending upon the power requirements of the device
- Replaceable 3.6V dc Lithium “D” cell battery
- IP67 sealed enclosure

FlexPower systems allow for a true wireless solution as the Node can be powered by battery power (3.6 to 5.5V dc). Battery life is application specific. Contact Banner Engineering's application engineers for a battery life calculation for your specific application.

For additional information, the most recent version of all documentation, and a complete list of accessories, refer to Banner Engineering's website, www.bannerengineering.com/surecross.

Models

Model	Power	Batteries	Cable
DX81	3.6V dc battery	One 3.6V Lithium "D" Cell	5-pin Euro pigtail QD



WARNING: Not To Be Used for Personnel Protection

Never use this product as a sensing device for personnel protection. Doing so could lead to serious injury or death. This product does NOT include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.



Wiring Diagrams

5-pin Euro-Style Hookup for DX81

Only FlexPower™ DX80 devices may be powered from this supply.



Wire No.	Wire Color	Description
3	Blue	dc common (GND)
5	Gray	3.6V dc

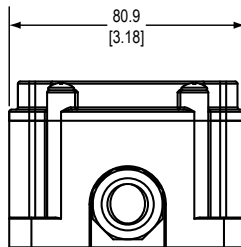
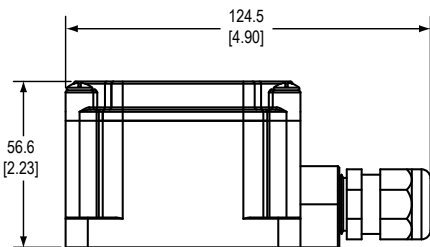
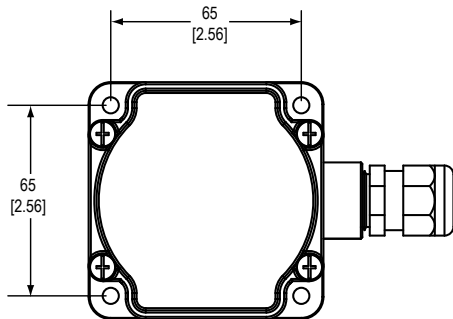
DX80...C Terminal Labels

V-

B+

Do not apply more than 5.5V dc to the gray wire.

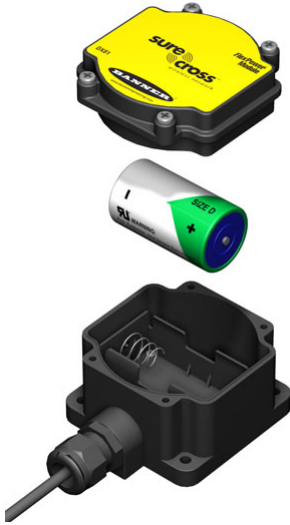
DX81 and DX81H Dimensions



DX81 and DX81H FlexPower Module Battery Replacement

For outside or high humidity environments, conductive grease may be applied to the battery terminals to prevent moisture and corrosion buildup.

To replace the lithium "D" cell battery in the DX81 FlexPower™ battery kit, follow these steps.



1. Unplug the battery device from the SureCross device it powers.
2. Remove the four screws mounting the battery pack face plate to the body and remove the face plate.
3. Remove the discharged battery and replace with a new battery. Only use a 3.6V lithium battery from Xeno, model number XL-205F.
4. Verify the battery's positive and negative terminals align to the positive and negative terminals of the battery holder mounted within the case. Caution: There is a risk of explosion if the battery is replaced incorrectly.
5. After replacing the battery, allow up to 60 seconds for the device to power up.

When removing the battery, press the battery towards the negative terminal to compress the spring. Pry up on the battery's positive end to remove from the battery holder. Properly dispose of your used battery according to local regulations by taking it to a hazardous waste collection site, an e-waste disposal center, or any other facility qualified to accept lithium batteries.

As with all batteries, these are a fire, explosion, and severe burn hazard. Do not burn or expose them to high temperatures. Do not recharge, crush, disassemble, or expose the contents to water.

Replacement battery model number: BWA-BATT-001. For pricing and availability, contact Banner Engineering.

Specifications

General

Estimated Battery Life

19,000 mA·hours

Housing

Polycarbonate

Weight: 0.26 kg (0.57 lbs)

Mounting: #10 or M5 (M5 hardware included)

Max. Tightening Torque: 0.56 N·m (5 in·lbf)

Wiring Access

One 1/2-inch NPT with 5-pin Euro-style 150mm pigtail QD

Environmental

Environmental

Rating: IEC IP67; NEMA 6; (See UL section below for any applicable UL specifications)

Operating Temperature: -40 to +85° C

Operating Humidity: 95% max. relative (non-condensing)

Radiated Immunity: 10 V/m, 80-2700 MHz (EN61000-6-2)

Shock and Vibration

IEC 68-2-6 and IEC 68-2-7

Shock: 30g, 11 millisecond half sine wave, 18 shocks

Vibration: 0.5 mm p-p, 10 to 60 Hz

Refer to the SureCross™ DX80 Wireless I/O Network product manual, Banner p/n 132607, for installation and waterproofing instructions. Operating the devices at the maximum operating conditions for extended periods can shorten the life of the device.

Warnings

The manufacturer does not take responsibility for the violation of any warning listed in this document.

Make no modifications to this product. Any modifications to this product not expressly approved by Banner Engineering could void the user's authority to operate the product. Contact the Factory for more information.

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