

SureCross PS24DXSR Power Supply with Relay



24V dc, 200 mA Power Supply with Solid State Relay

Features



Power Supply

- Accepts universal input voltage (85 to 264V ac, 110 to 330V dc) and provides 24V dc output
- Provides reliable power for dc-powered sensors and wireless products
- Standard DX80 mounting
- Protected against input and output over-voltage and over-current transients
- Thermal shutdown protected

Relay

- Converts a PNP output from a dc-powered sensor to the supplied universal AC or DC voltage
- Relay is solid state and optically isolated with current limiting circuitry to withstand current surge transients



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.



Specifications

Power Supply	Relay
<p>Voltage Input: 100 / 240V ac (84 to 264V ac, 110 to 340V dc) Output: 24V dc</p> <p>Current Input (110/240V ac): 150 mA / 80 mA Inrush (120/240V ac, 150 mA load): 20 A / 40 A Leakage (110/240V ac): 0.5 mA / 0.75 mA Output: 200 mA; Note 1</p> <p>Input Frequency 50 / 60 Hz (47 to 440 Hz)</p> <p>Output Power 5 W</p> <p>Holdup Time 10 milliseconds</p> <p>Regulation Line: <1% Load: <1% Temperature: <1%</p> <p>Efficiency 77%</p>	<p>Load Current: 120 mA Voltage: Equals power supply input voltage</p> <p>Saturation Voltage < 4.8V at max. load current</p> <p>ON State Resistance 35 Ohms</p> <p>OFF State Leakage Current 1 μA</p> <p>ON/OFF Delay 2 milliseconds / 0.5 milliseconds</p> <p>Output Capacitance 12 pF</p>

General Specifications

Indicators

Green LED on solid: Power ON
Yellow LED on solid: Relay ON

Construction

Polycarbonate

Wiring

Wire Gauge: 28–14 AWG

Operating Temperature

-20 to 60 °C

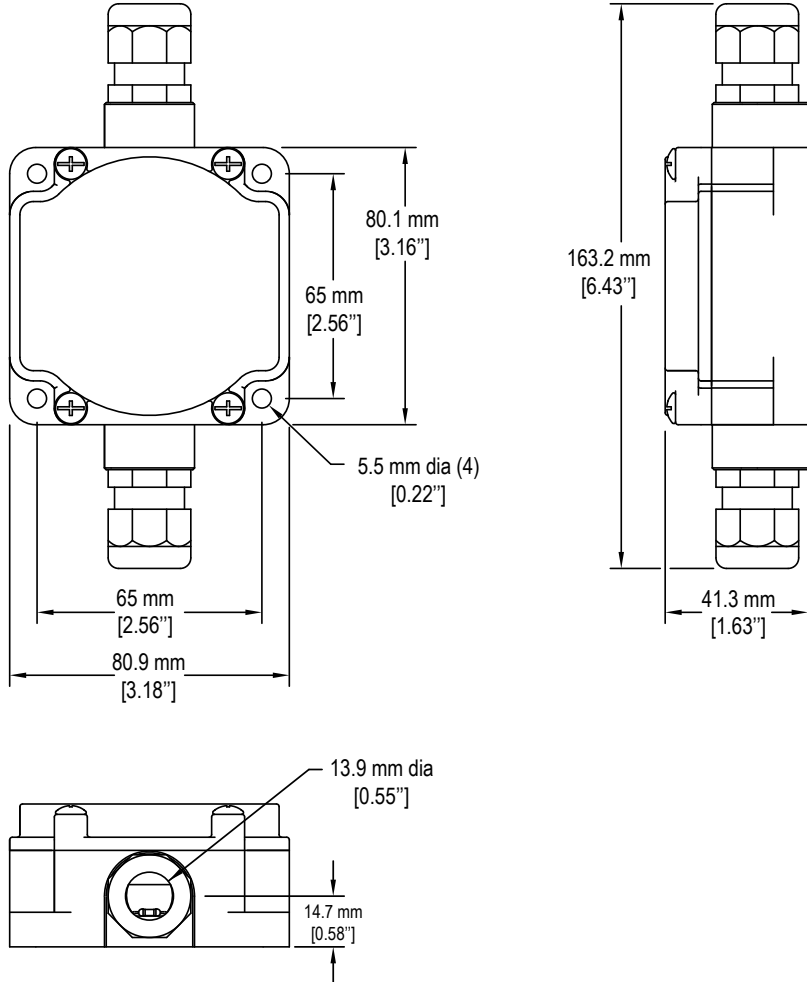
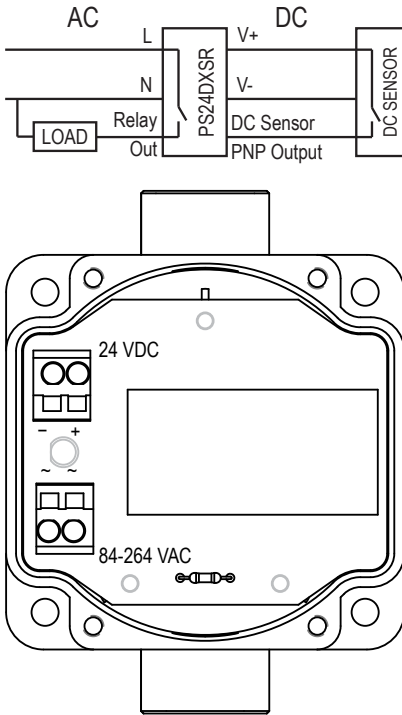
Environmental Rating

IEC IP67, NEMA 6; Note 2

Application Notes

1. Derate maximum output current 10 mA/°C above 50°C
2. Meets environmental ratings if cover screws are tightened to 5.5 in-lbs and provided strain reliefs are used with teflon tape and screwed on flush to the housing.

Wiring and Dimensions



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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