

Sensor Connections

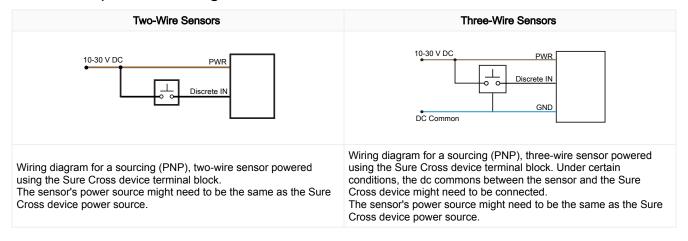
The Sensor Connections guide lists most common Banner and non-Banner sensors and how to wire them to the DX80 devices.

This reference guide lists typical connections. If you have additional questions about a specific sensor or its connection instructions, please contact Banner Engineering or the manufacturer of the sensor you are using.

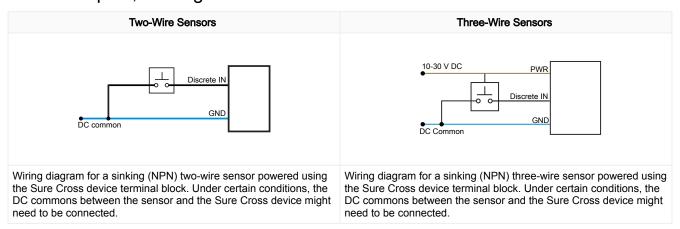
Discrete Inputs

Discrete Sensors. Neither the inputs nor the outputs on the DX80 devices are isolated. Under certain operating conditions, externally powered sensors may need to have ground in common with the DX80 device to which they are connected. The power sources do not have to be the same.

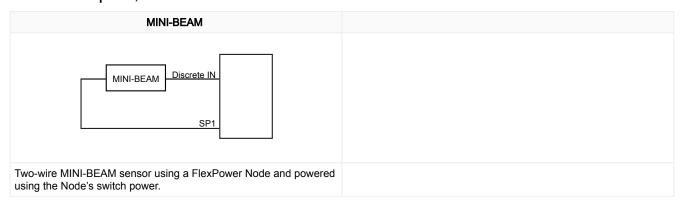
Discrete Inputs, Sourcing



Discrete Inputs, Sinking

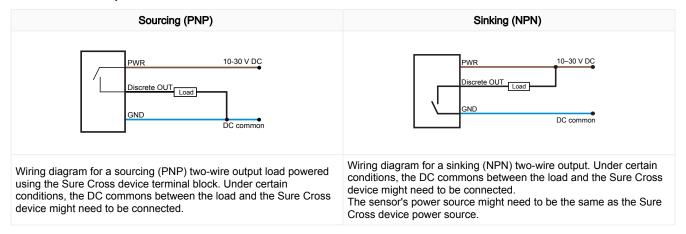


Discrete Inputs, MINI-BEAM



Discrete Outputs

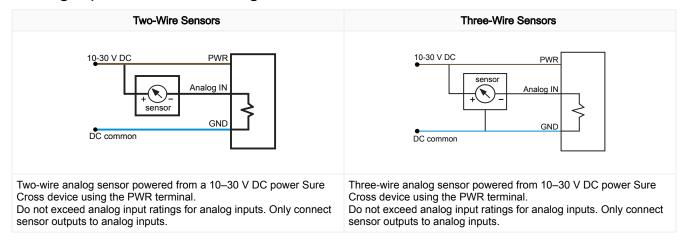
Discrete Outputs



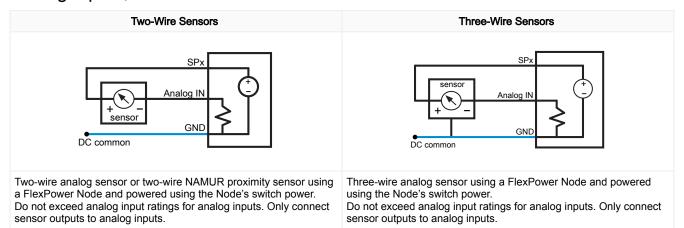
Analog Inputs

Analog Sensors. For analog sensors, the ground/dc common of the sensor should be connected to the ground of the DX80 device. For best results, Banner recommends that the power source for the sensor and DX80 device is the same.

Analog Inputs, Powered using Sure Cross Device Terminals

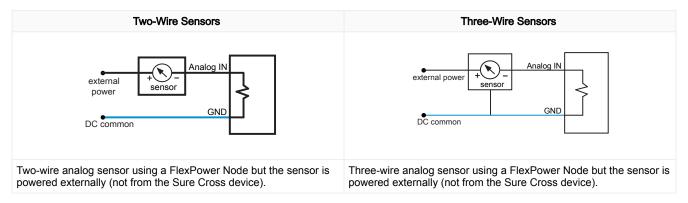


Analog Inputs, Powered from Switch Power

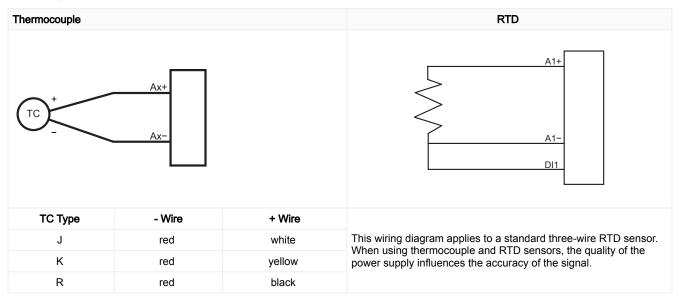


Analog Inputs, Powered Externally

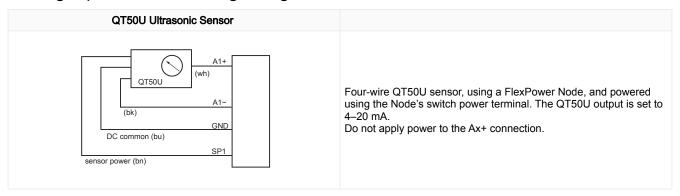
Do not exceed analog input ratings for analog inputs. Only connect sensor outputs to analog inputs.



Analog Inputs, Temperature Sensors

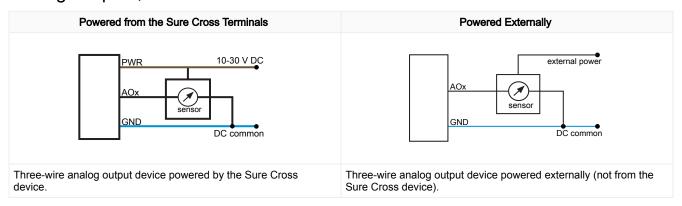


Analog Inputs, QT50U Long-Range Ultrasonic Sensor

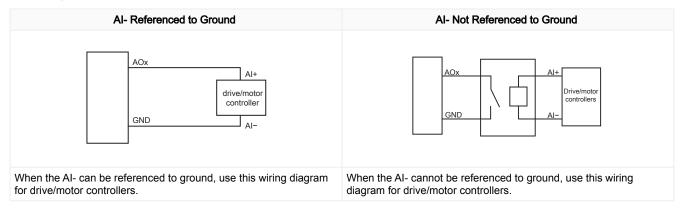


Analog Outputs

Analog Outputs, Three-Wire Sensors



Analog Outputs, Drive Motor Controllers



Document title: Sensor Connections

Part number: 136214 Revision:

Original Instructions

© Banner Engineering Corp. All rights reserved.