Wiring Guide

The following document provides all the wiring instructions for the main configurator apps.

Document versioning

Version	Author	Date	Notes
V 1.0	Elia Guglielmin	5/12 /2023	First emission

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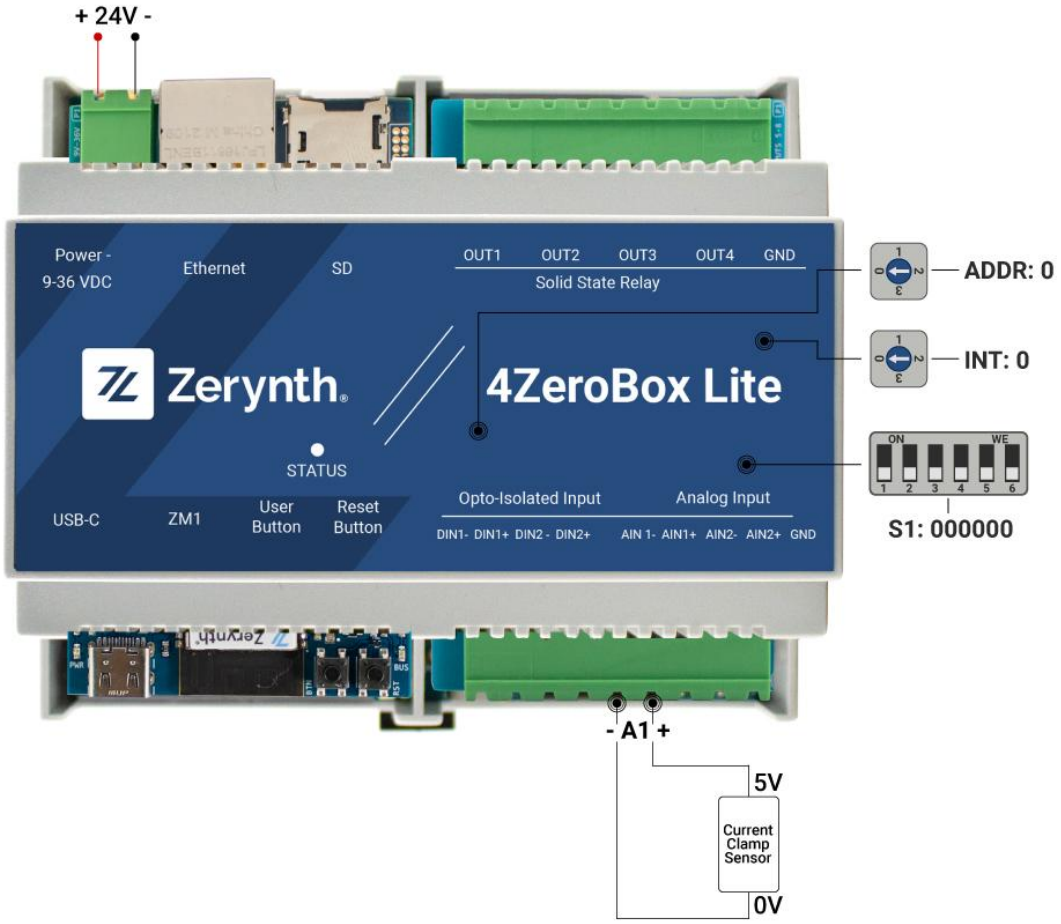
Summary

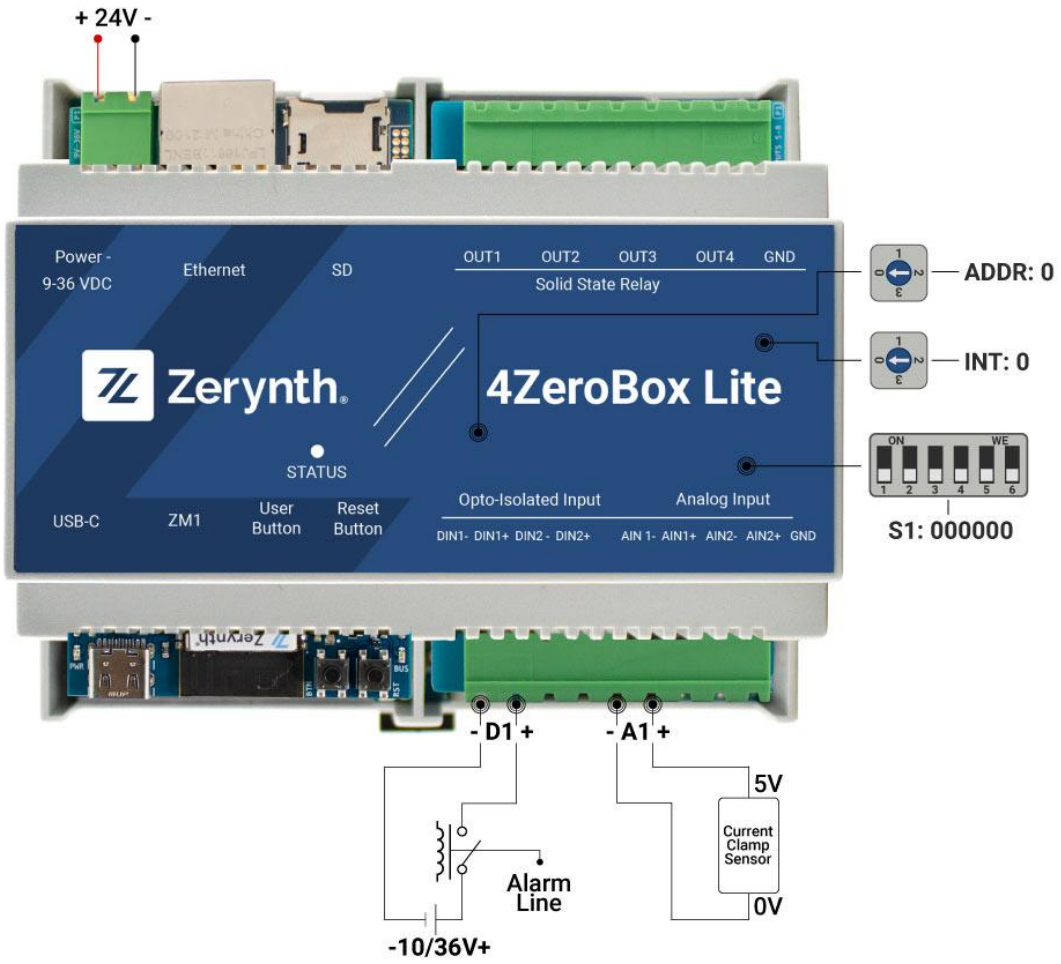
MACHINE MONITORING

4ZeroBox Lite (IO) - Current Sensor



NOTE: the above configuration refers to the setup using a 4ZeroBox Lite (IO) with a 0-5V Current Clamp Sensor. If a different clamp is used, the S1 dip-switch configuration might have to be changed accordingly.

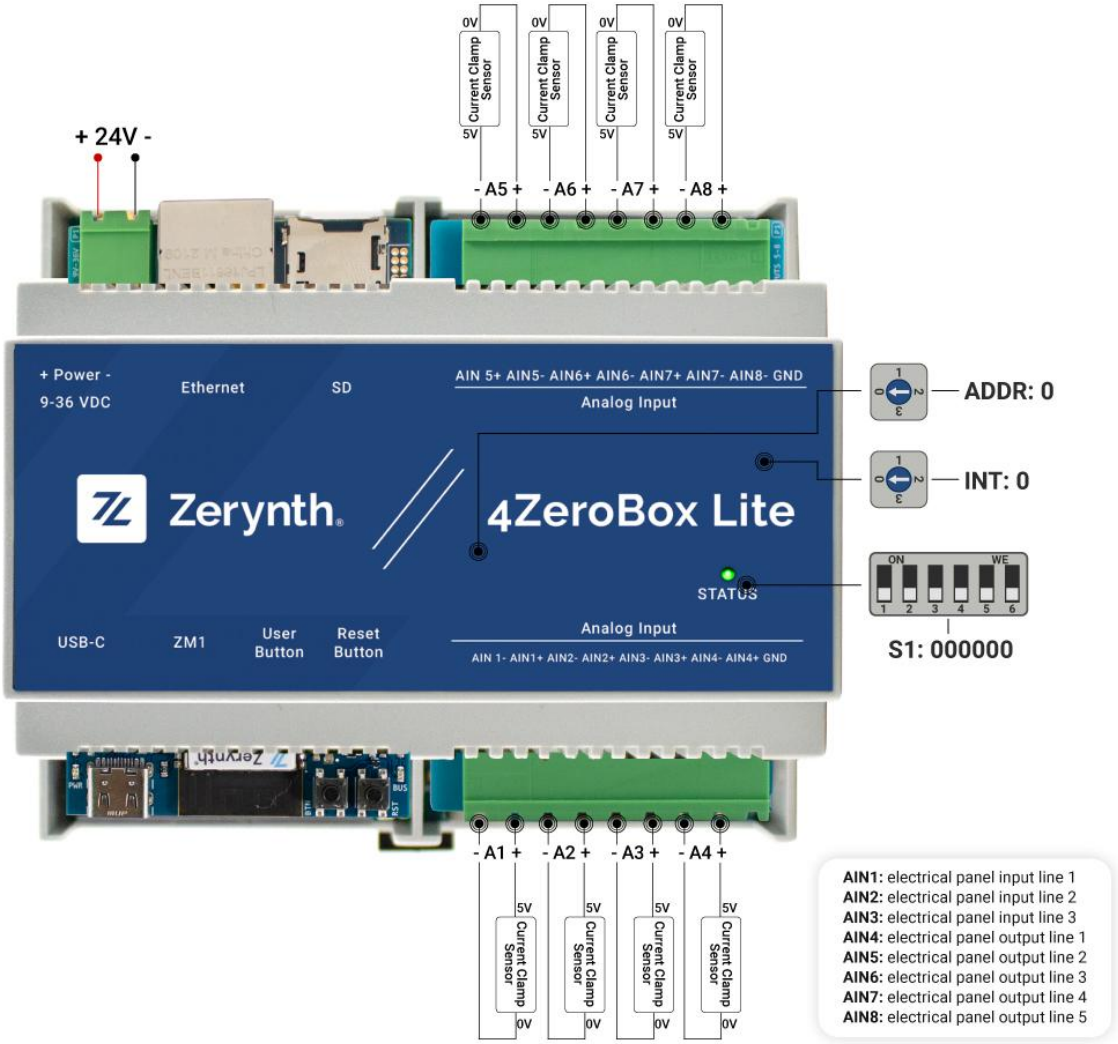
4ZeroBox Lite (IO) - Current Sensor and Alarm



NOTE 1: the above configuration refers to the setup using a 4ZeroBox Lite (IO) with a 0-5V Current Clamp Sensor. If a different clamp is used, the S1 dip-switch configuration might have to be changed accordingly.

NOTE 2: the Alarm Line in this setup controls a free contact relay that controls the logic on the digital input. In this case the logic value on the D1 pins will be the same as the Alarm Line. If a different setup is used, please remember to adapt your no-code configurator settings accordingly.

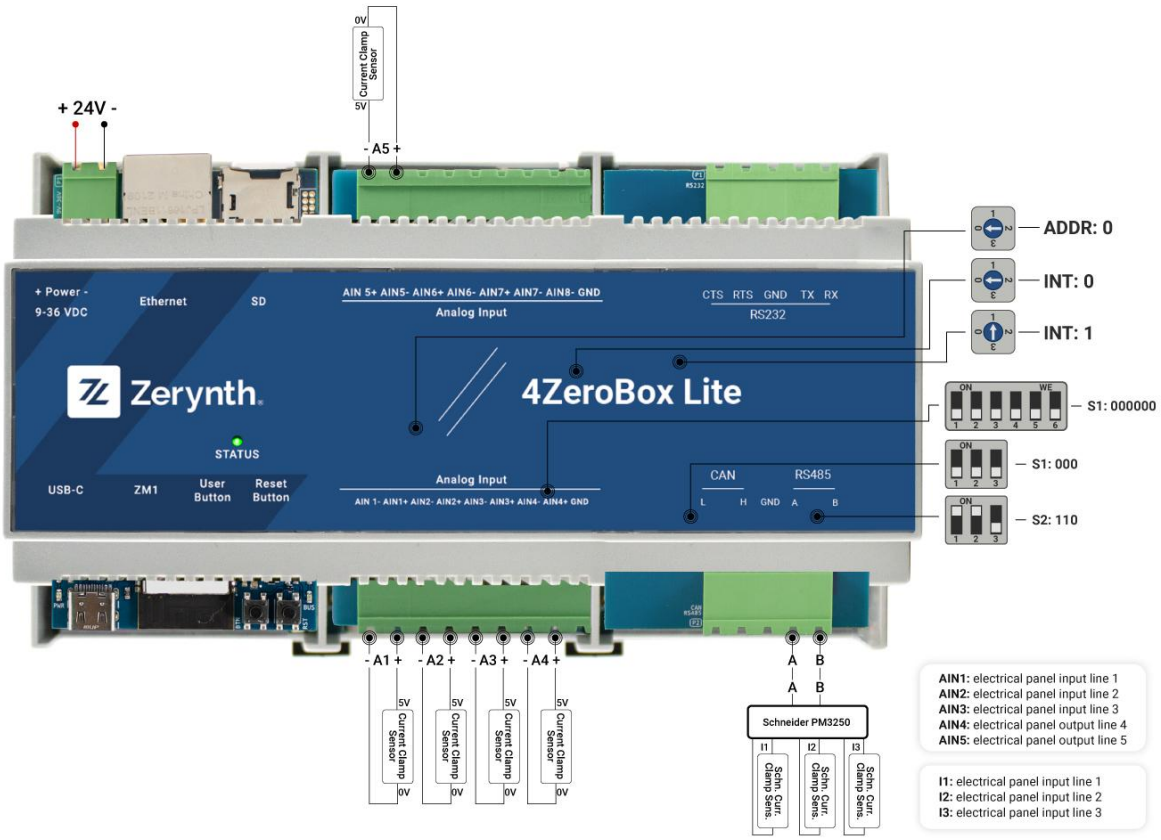
4ZeroBox Lite (AIN) - Electric Panel



NOTE 1: the above configuration refers to the setup using a 4ZeroBox Lite (AIN) with 0-5V Current Clamp Sensors. If a different set of clamps is used, the AIN's S1 dip-switch configuration might have to be changed accordingly.

NOTE 2: please note that this kit comes with different clamps' ranges for the input lines and the output lines. The input lines should be monitored with the higher range clamps.

4ZeroBox Lite (AIN) + Power Meter - Electric Panel Advanced

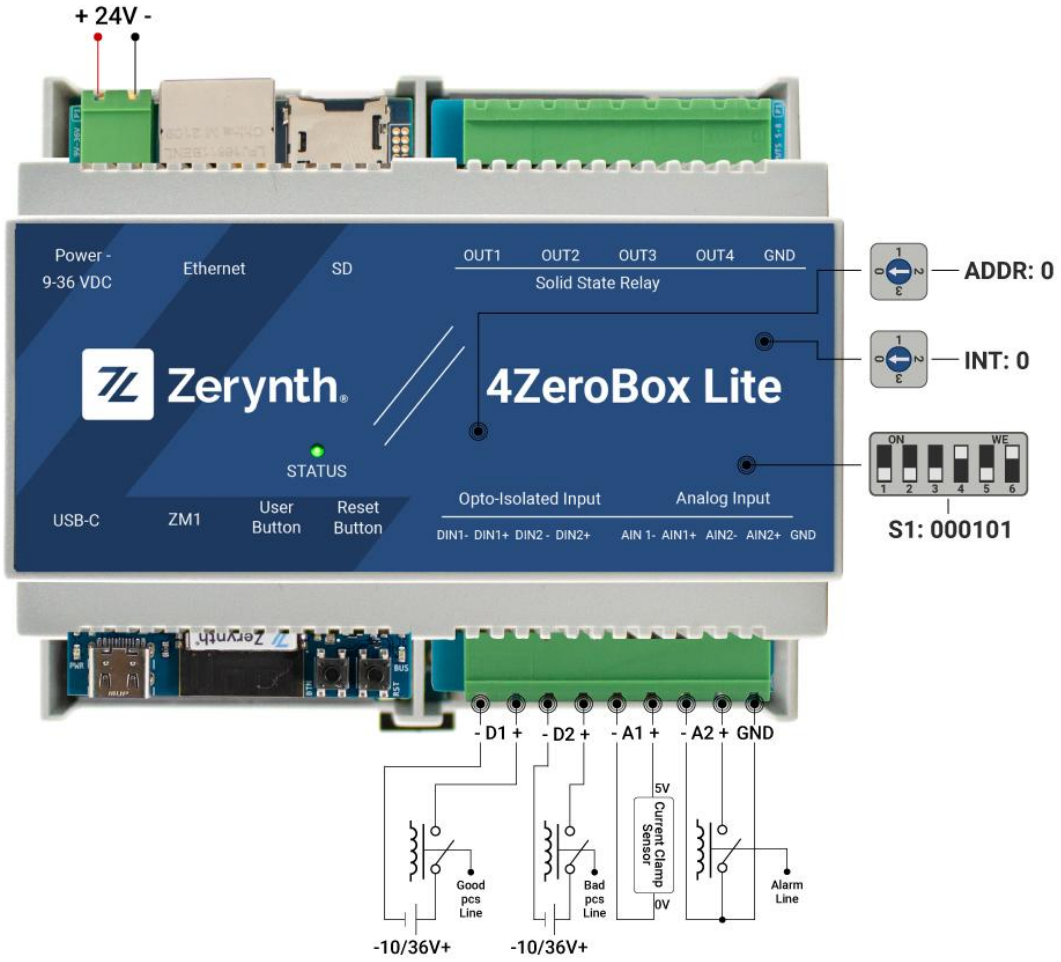


NOTE 1: the above configuration refers to the setup using a 4ZeroBox Lite (AIN) with 0-5V Current Clamp Sensors for the output lines. If a different set of clamps is used, the S1 dip-switch configuration might have to be changed accordingly.

NOTE 2: please note that this kit comes with different clamps specifically for the PM3250. The input lines should be monitored with PM3250 using these clamps.

Production Insight

4ZeroBox Lite (IO) - Current Sensor, Pcs Counters and Alarm

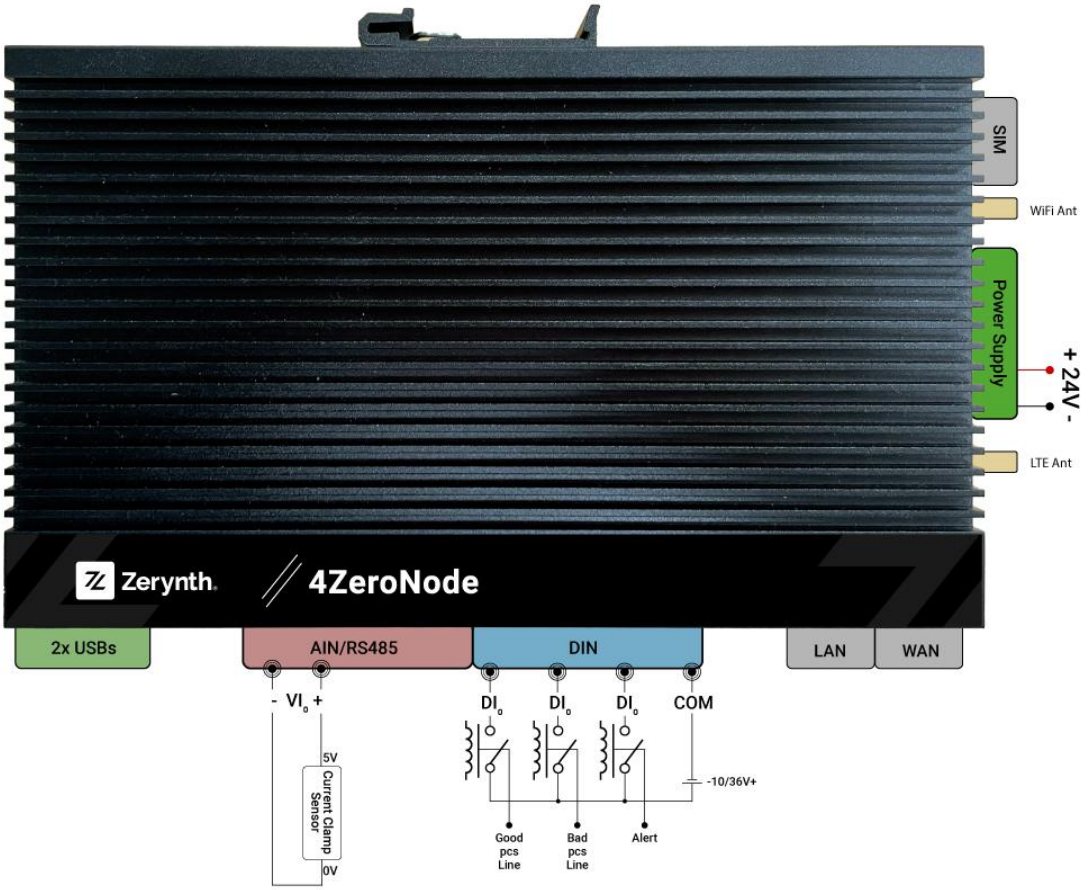


NOTE 1: the above configuration refers to the setup using a 4ZeroBox Lite (IO) with a 0-5V Current Clamp Sensor. If a different clamp is used, the S1 dip-switch configuration might have to be changed accordingly.

NOTE 2: the Pieces Lines in this setup controls a free contact relay that controls the logic on the digital input. In this case the logic value on the D1-2 pins will be the same as the Pcs counter Lines. If a different setup is used, please remember to adapt your no-code configurator settings accordingly.

NOTE 3: the Alarm Line in this configuration is connected to the Analog Input A2 configured as a resistive sensor. The free contact relay is required for this to work.

4ZeroNode - Current Sensor, Pcs Counters and Alarm



NOTE 1: the above configuration refers to the setup using a 4ZeroNode with a 0-5V Current Clamp Sensor. If a different clamp is used, the S1 dip-switch configuration might have to be changed accordingly.

NOTE 2: the Pieces Lines and Alarm in this setup controls a free contact relay that controls the logic on the digital input. In this case the logic value on the D0-2 pins will be the same as the Pcs Counters/Alarm Lines. If a different setup is used, please remember to adapt your no-code configurator settings accordingly.