

# ARLYN SCALES: BARRIER STRIP CONNECTION

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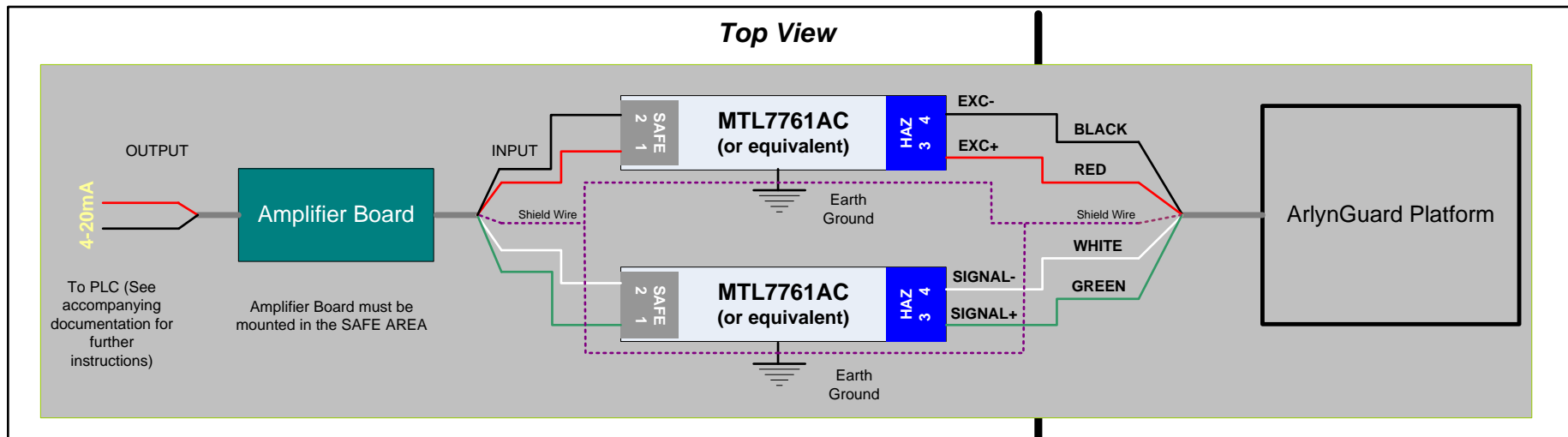
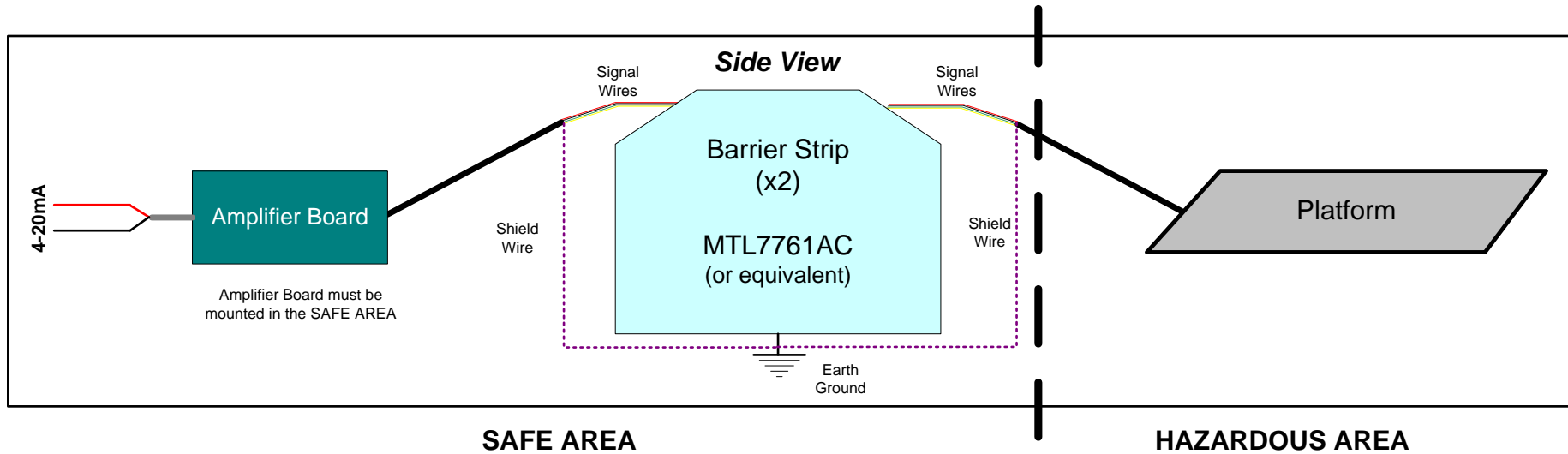
Rev 1.4

## **INTRINSICALLY SAFE LOAD CELLS CONNECTED TO BARRIER STRIPS**

For the proper operation of the system, the Barrier Strips need to be installed according to the Barrier Strips' manufacturer's guidelines. Please refer to the manufacturer's website for more information.

Please take care to note the incoming and outgoing connection for wiring the barrier strip. Also note the EARTH GROUND connection as shown in the diagram. Please see below diagram for reference:

## USING 4-20mA AMPLIFIER BOARD

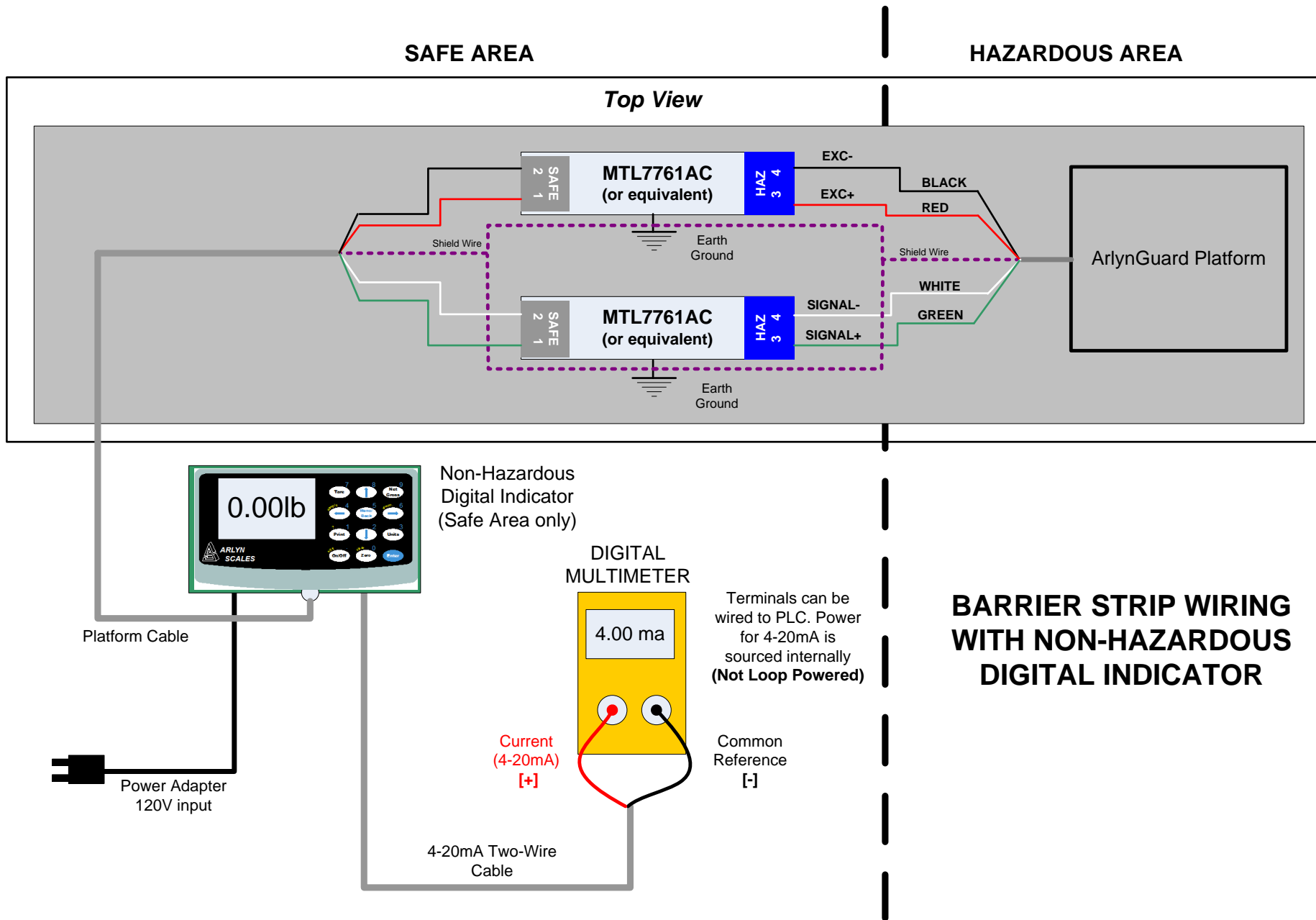


**Note:** If your PLC resides in the Hazardous area, then you need another Barrier Strip that connects between the OUTPUT (4-20mA) side of the Amplifier board and the input to your PLC. **The Amplifier Board is NOT EXPLOSION PROOF and it MUST reside in the Safe Area.**

Shield wire from both sides must be connected to Earth Ground terminal on the Barrier Strips. The terminal then needs to be connected to a proper Earth Ground point in your facility.

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# USING A SAFE AREA INDICATOR DISPLAY



Finally, it is important to note that the voltage between the COMMON connection (black wire from the amplifier board to your PLC) and the Ground lug connection on the barrier strip should not be more than 2.5V. Please double check the load resistance on your PLC to make sure it's small enough to register less than the 2.5V voltage drop.