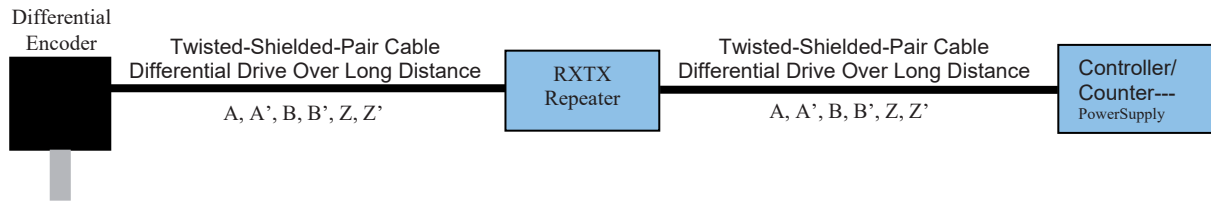


Technical Bulletin 516

RXTX - Differential Encoder to Differential Receiver



Applications Guide

The illustration above utilizes one RXTX Repeater to “repeat” the encoder’s complimentary-differential signals for purpose of boosting the signal drive capacity, removing noise and distortion from the signals, and transmitting the signals over longer distances.

Note: Refer to the RXTX Repeater connection diagram for the correct signal, power, and shield wiring to the terminals.

Suggestions:

- Ensure that RXTX Repeater signals at the Controller/Counter are properly terminated (refer to Tech Bulletin TB116 for information on proper termination). The RXTX Repeater is already designed to properly terminate the encoder signals.
- Whenever transmitting encoder signals a long distance, use LOW CAPACITANCE, TWISTED-SHIELDED PAIR CABLE.
- Terminate cable shields/drain wires to the 0V Terminal.