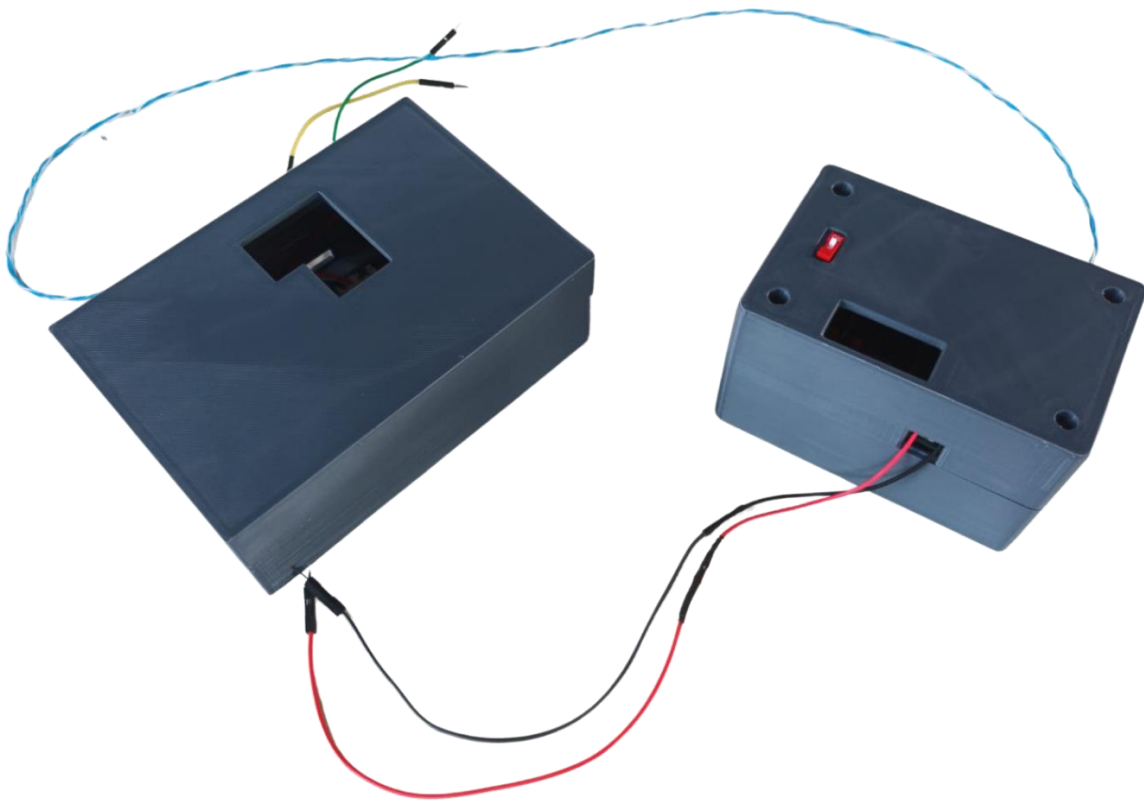


SIMPLEX LINE CODING TRANSCEIVER



DATASHEET – GROUP 04

Features

1. Encoder

Current Drawn	0.046 A
Impedance	92 kΩ
PCB Dimension	9cm x 5cm
Enclosure Dimension	9cm x 5.6cm x 5.6cm

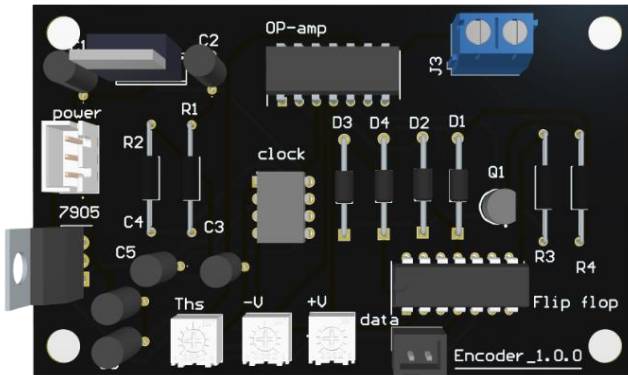


Figure 1.1: Encoder PCB Design

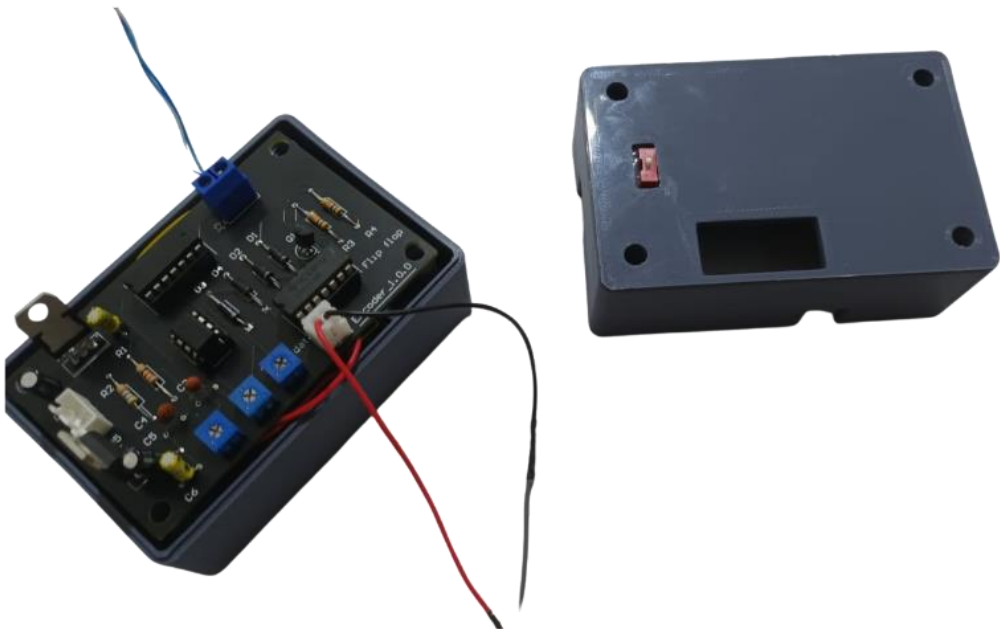


Figure 1.2: Encoder Enclosure Design

2. Decoder

Current Drawn	0.017 A
Operating Voltage	8 - 24 V
Impedance	92 k Ω
PCB Dimension	9cm x 5cm
Enclosure Dimension	13cm x 9cm x 4.5cm

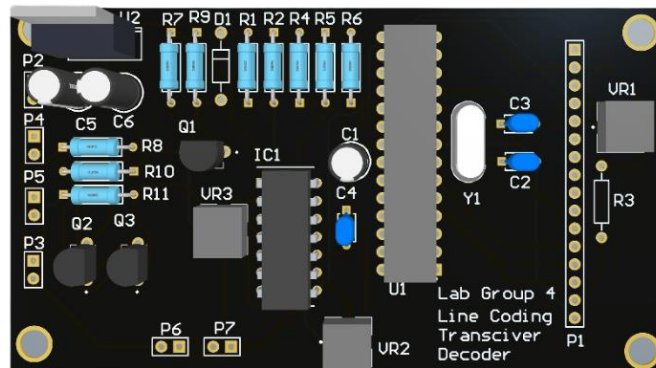


Figure 2.1: Decoder PCB Design

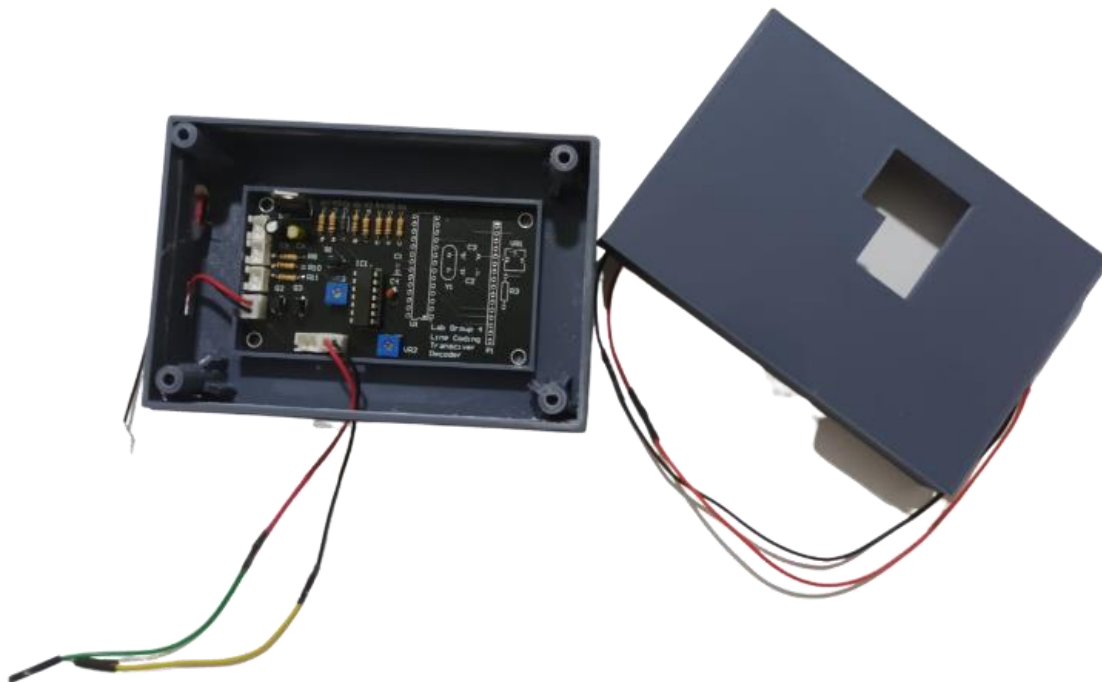


Figure 1.2: Decoder Enclosure Design

Signal Specifications

Encoded Signal : +5 to -5V

Decoded Output Signal : 0 to 5V

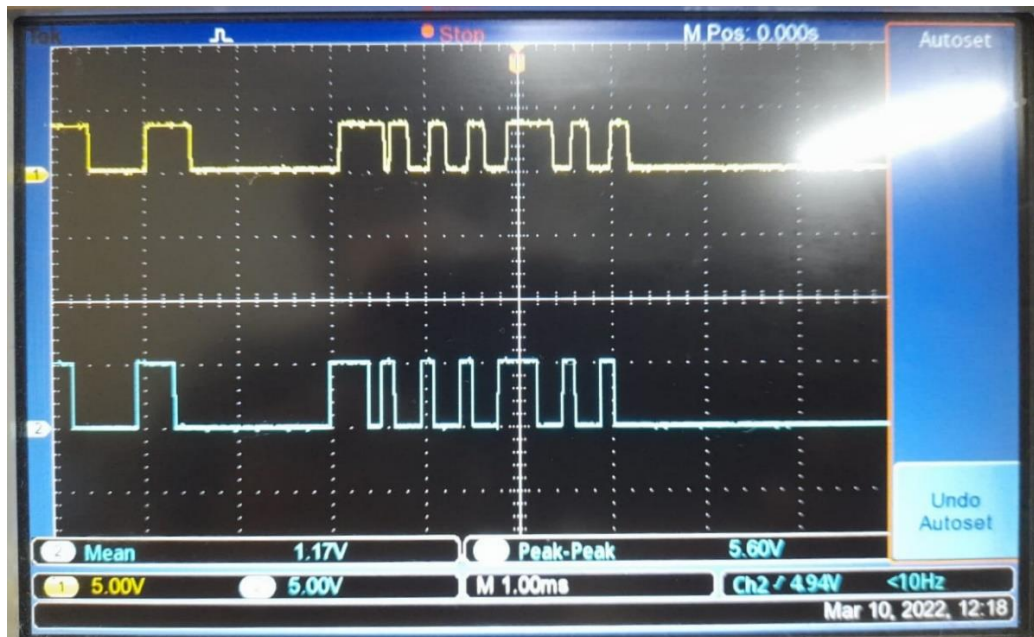


Figure: Data Signal and Decoded Output Signal

Product Specifications

Encoding Method	Manchester Encoding Scheme
Tested Maximum Transfer Distance	5m
Power Source	9V Battery