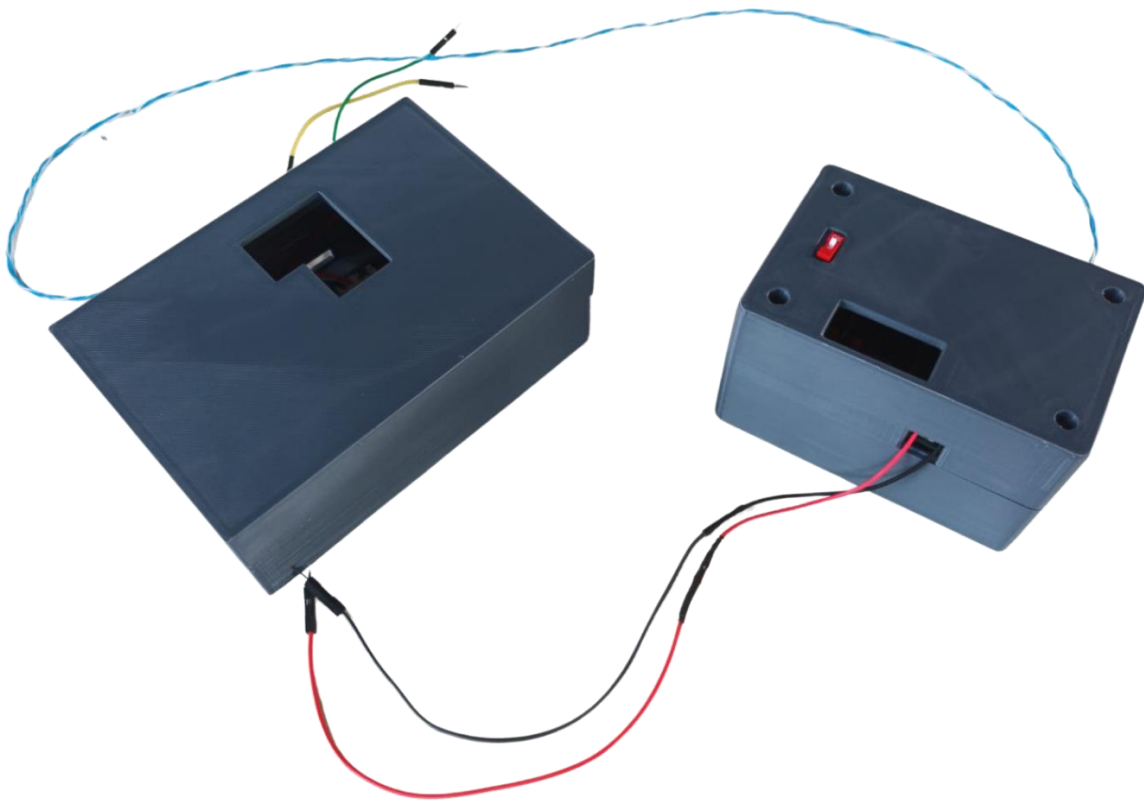


# SIMPLEX LINE CODING TRANSCEIVER



**DATASHEET – GROUP 04**

## Features

### 1. Encoder

Current Drawn	0.046 A
Operating Voltage	8 - 24 V
Impedance	92 k $\Omega$
PCB Dimension	9cm x 5cm
Enclosure Dimension	9cm x 5.6cm x 5.6cm

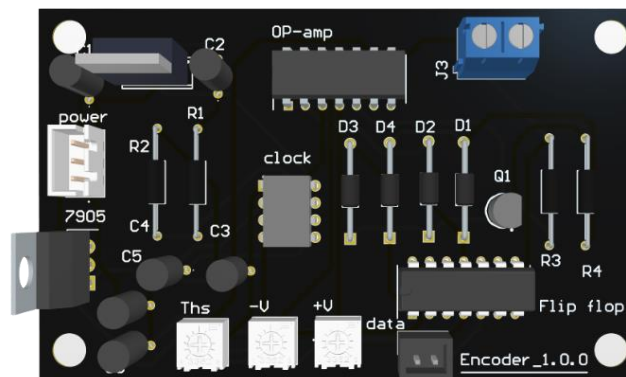


Figure 1.1: Encoder PCB Design

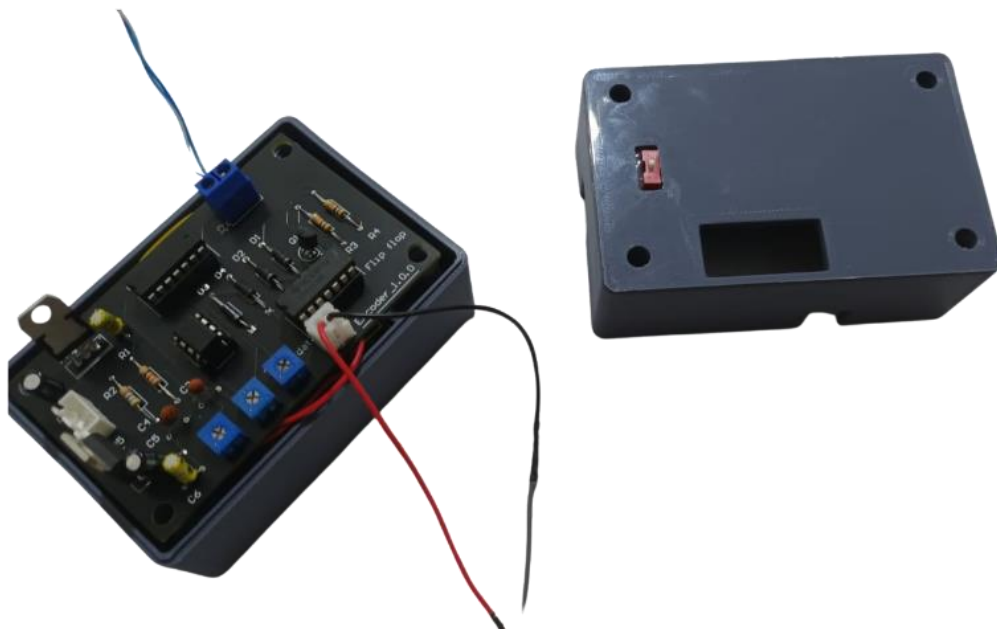


Figure 1.2: Encoder Enclosure Design

## 2. Decoder

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

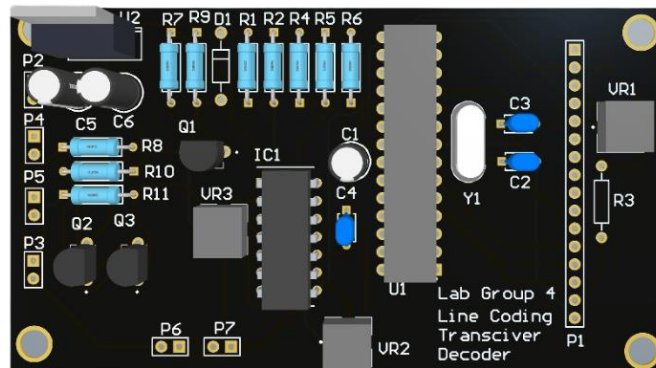


Figure 2.1: Decoder PCB Design

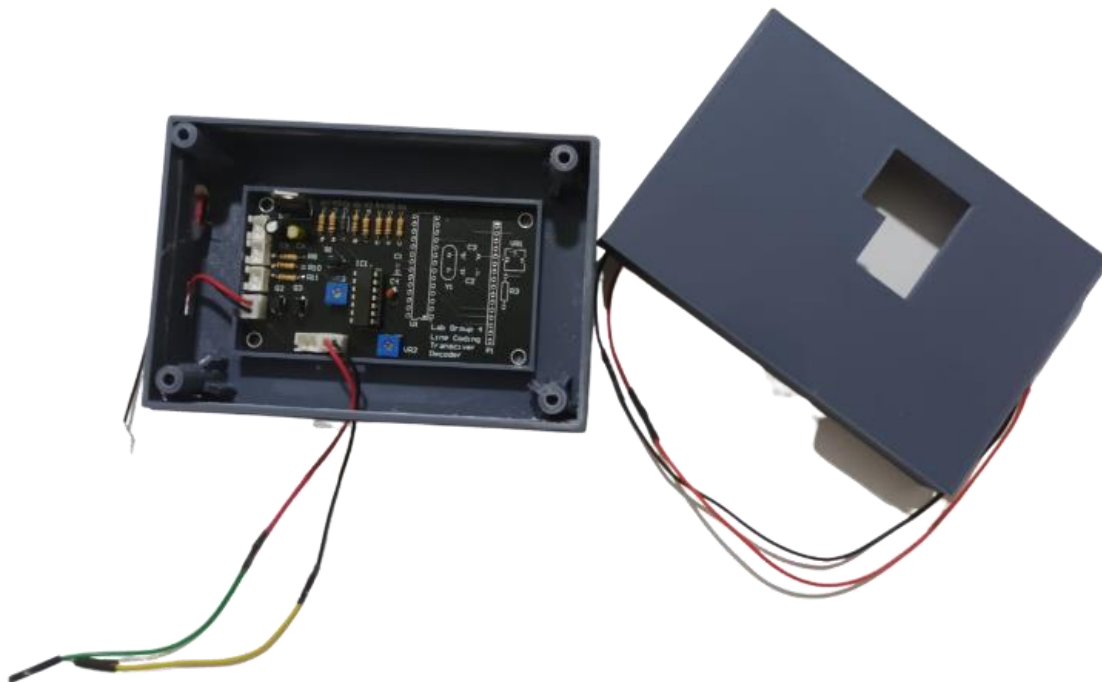
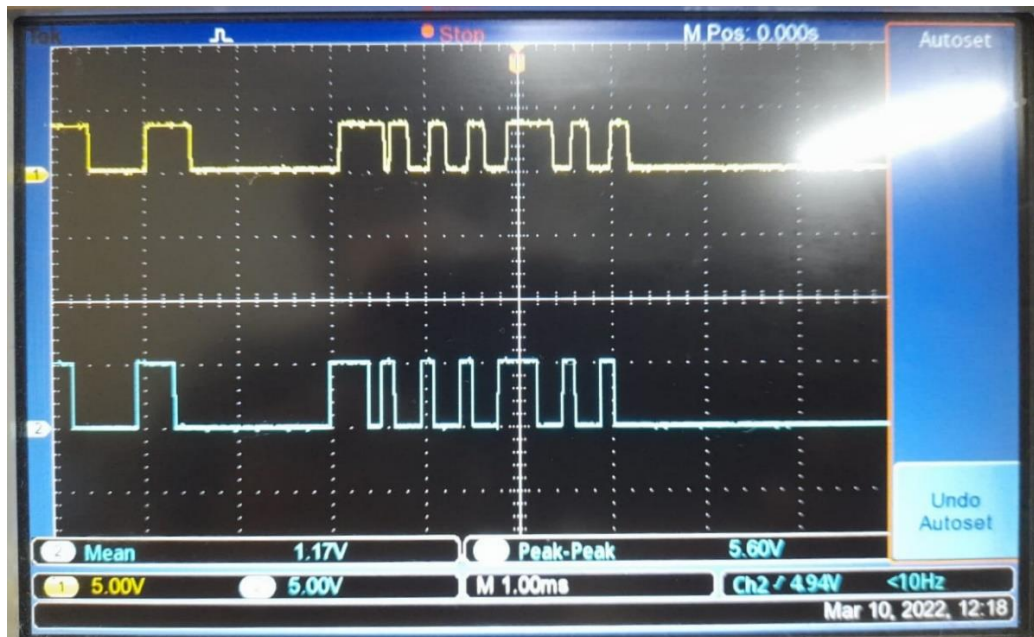


Figure 1.2: Decoder Enclosure Design

### 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
Accuracy	
Power Source	9V Battery