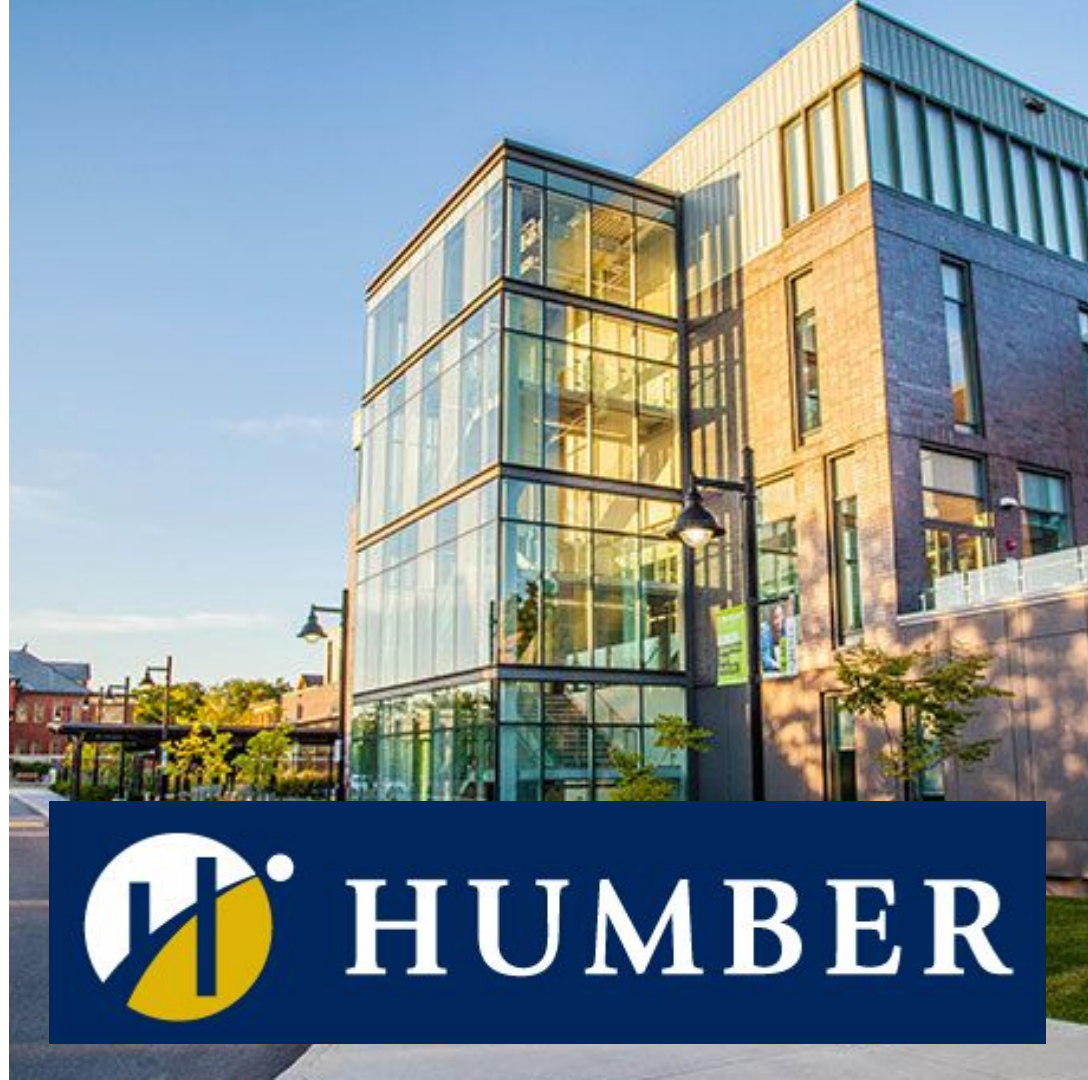Deryn Boscariol
Jerry Borges Jacob
Kathan Patel
Ozan Lago-Sereflioglu

HUMBER

Red London Telephone Box

Red London Telephone Box
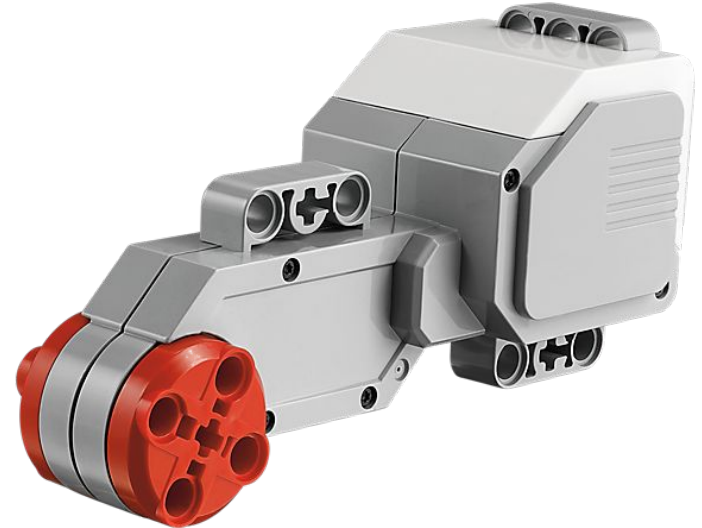
Set #21347

Module Description

A motor will be fixed to the door of the phone booth so that when a car approaches, the door will swing open and a speaker will emit a ringing noise.
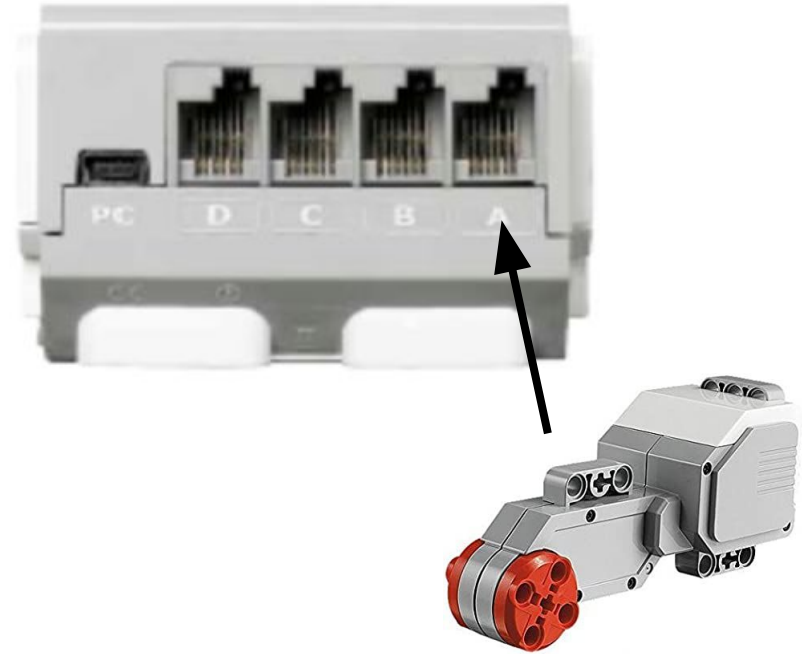
Sensors and Motors

We will be using the Ultrasonic sensor to sense the distance of any passing car. We will also be using a large motor to open the door and the speaker from the EV3 port to play the phone ringing sound.

Ports

Our project will require one output port on an EV3 hub to connect a motor as wells as one input port to connect the ultrasonic sensor.

Variables/Settings

Distance: The input given by the sensor

Limit: The Minimum distance required to activate the door and phone.

IOT Loop

WHILE TRUE

   IF (distance < limit)

      DOOR == OPEN

      Phone == RING

   ELSE

      DOOR == CLOSE

      Phone == OFF

ENDIF