|  |  |  |
| --- | --- | --- |
| **Sensor** | **Location on CX-Bot** | **Pinout** |
| Hall Effect Magnetic Sensor (A1324) | No special location on  CX-BOT shield | -Lead 1: Supply voltage connected to 5V, either at left or below breadboard  -Lead 2: GND connected to ground, either at left or below breadboard  -Lead 3: Vout  connected to an analog input channel |
| Color Sensor (TCS34725) | RGB color Sensor I2C Bus  (Left of Ping Sensor pins)/ Location 3 | -LED: N/R Ground to turn off the board  -INT: N/R Interrupt  -SDA: Data Line  -SCL: Clock Line  -3V3: N/R  -GND: Ground  -VIN: Supply voltage, typically 5V |
| Infrared Thermal Sensor (MLX90614) | No special location on the CX-BOT, but specified pins | -Lead 1(left): Supply Voltage Vin, typically 5V  -Lead 2: GND  -Lead 3: SCL – clock signal; pin 21  -Lead 4(Right): SDA – data signal ; pin 20 |
| Radio-Frequency Identification Reader (ID-12LA) | Serial 1; RFID Bus  Top left-most set of pins , Directly above breadboard | -VCC: Supply voltage, typically 5V  - DATA: Data channel- Serial 1, pin 19  - GND |
| Multi-Character Liquid Crystal Display (27977) | Serial 3, right of RFIP Serial 1 bus ; | -Lead 1(left) \_ RX Receive /Input signal  -Lead 2(middle) 5V  -Lead 3(right) GND |