|  |  |  |  |
| --- | --- | --- | --- |
| Eagle PIN | Arduino PIN | Funktion | Verbunden mit |
| D0-7 1 | D0 | RX | - |
| D0-7 2 | D1 | TX | - |
| D0-7 3 | D2 | Richtungs-Eingang A2 und B2 | IC1 Input2; IC1 Input3 |
| D0-7 4 | D3~ | Enable Motor | IC1 EnableA; IC1 Enable B |
| D0-7 5 | D4 | Trigger US-Sensor1 | USSENSOR1 3 |
| D0-7 6 | D5~ | Servo Signal | SERVO 3 |
| D0-7 7 | D6~ | Trigger US-Sensor2 | USSENSOR2 3 |
| D0-7 8 | D7 | Echo US-Sensor 1 | USSENSOR1 4 |
| D8-13 1 | D8 | Echo US-Sensor 2 | USSENSOR2 4 |
| D8-13 2 | D9(~) | Richtungs-Eingang A1 und B1 | IC1 Input1; IC1 Input4 |
| D8-13 3 | D10(~) | LED Rot | LEDs 1 |
| D8-13 4 | D11~ | Enable Licht | LIGHT3 |
| D8-13 5 | D12 | LED Grün | LEDs 2 |
| D8-13 6 | D13 | LED Gelb | LEDs 3 |
| D8-13 7 | GND | GND | siehe Schaltplan |
| D8-13 8 | AREF | - | - |
| Analog 1 | A0 | - | - |
| Analog 2 | A1 | - | - |
| Analog 3 | A2 | - | - |
| Analog 4 | A3 | - | - |
| Analog 5 | A4 SDA | I2C SDA | I2C1 1;I2C2 1 |
| Analog 6 | A5 SCL | I2C SCL | I2C1 2;I2C2 2 |
| Power 1 | Vin | Versorgungsspannung 9,6V | LIGHT1; IC1 VS; |
| Power 2 | GND | GND | siehe Schaltplan |
| Power 3 | GND | GND | siehe Schaltplan |
| Power 4 | 5V | Versorgungsspannung 5V | USSENSOR1 2; USSENSOR2 2;  IC1 VCC; SERVO 2 |
| Power 5 | 3.3V | - | - |
| Power 6 | RESET | Arduino Reset | RESET 4 |
| Power 7 | IOREF | - | - |
| Power 8 | - | - | - |