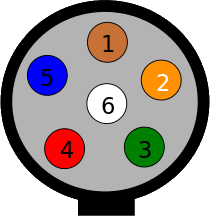
**EAS-BOT 1.0**

**DATA SHEET**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **TXD (MEGA)** | **0** | **HC-05** | **Transmit Data (M)** | **-** | **-** |
| **RXD (MEGA)** | **1** | **HC-05** | **Receiving Data (M)** | **-** | **-** |
| **TXD (NANO)** | **0** | **HC-05** | **Transmit Data (N)** | **-** | **-** |
| **RXD(NANO)** | **1** | **HC-05** | **Receiving Data (N)** | **-** | **-** |
| **Lower Body Movements:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **ENB** | **2** | **L298N** | **Enable B** | **50-255** | **-** |
| **IN4** | **3** | **L298N** | **Input 4** | **HIGH-LOW** | **-** |
| **IN3** | **4** | **L298N** | **Input 3** | **HIGH-LOW** | **-** |
| **IN2** | **5** | **L298N** | **Input 2** | **HIGH-LOW** | **-** |
| **IN1** | **6** | **L298N** | **Input 1** | **HIGH-LOW** | **-** |
| **ENA** | **7** | **L298N** | **Enable A** | **50-255** | **-** |
| **Lights:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **WHITE** | **8** | **LED** | **White LED** | **HIGH-LOW** | **-** |
| **EYESG** | **9** | **LED** | **Eyes Green LED** | **HIGH-LOW** | **-** |
| **EYESB** | **10** | **LED** | **Eyes Blue LED** | **HIGH-LOW** | **-** |
| **LYEL** | **11** | **LED** | **Left Yellow LED** | **HIGH-LOW** | **-** |
| **RYEL** | **12** | **LED** | **Right Yellow LED** | **HIGH-LOW** | **-** |
| **REDLED** | **13** | **LED** | **Red LED** | **HIGH-LOW** | **-** |
| **LED7** | **52** | **LED** | **LED 7** | **HIGH-LOW** | **-** |
| **RGB\_RED** | **31** | **LED** | **RGB Red LED** | **HIGH-LOW** | **-** |
| **RGB\_GREEN** | **27** | **LED** | **RGB Green LED** | **HIGH-LOW** | **-** |
| **RGB\_BLUE** | **25** | **LED** | **RGB Blue LED** | **HIGH-LOW** | **-** |
| **Upper Body Movements:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **HEADX** | **37** | **SERVO** | **Head X-Axis** | **0-180** | **-** |
| **HEADY** | **39** | **SERVO** | **Head Y-Axis** | **0-180** | **-** |
| **LshoY** | **14** | **SERVO** | **Left Shoulder Y-Axis** | **0-180** | **-** |
| **RshoY** | **15** | **SERVO** | **Right Shoulder Y-Axis** | **0-180** | **-** |
| **LshoX** | **16** | **SERVO** | **Left Shoulder X-Axis** | **0-180** | **-** |
| **RshoX** | **17** | **SERVO** | **Right Shoulder X-Axis** | **0-180** | **-** |
| **LarmY** | **18** | **SERVO** | **Left Arm Y-Axis** | **0-180** | **-** |
| **RarmY** | **19** | **SERVO** | **Right Arm Y-Axis** | **0-180** | **-** |
| **LarmX** | **20** | **SERVO** | **Left Arm X-Axis** | **0-180** | **-** |
| **RarmX** | **21** | **SERVO** | **Right Arm X-Axis** | **0-180** | **-** |
| **RTF** | **24** | **SERVO** | **Right Thumb Finger** | **0-180** | **-** |
| **LTF** | **42** | **SERVO** | **Left Thumb Finger** | **0-180** | **-** |
| **RIF** | **26** | **SERVO** | **Right Index Finger** | **0-180** | **-** |
| **LIF** | **44** | **SERVO** | **Left Index Finger** | **0-180** | **-** |
| **RMF** | **28** | **SERVO** | **Right Middle Finger** | **0-180** | **-** |
| **LMF** | **46** | **SERVO** | **Left Middle Finger** | **0-180** | **-** |
| **RRF** | **30** | **SERVO** | **Right Ring Finger** | **0-180** | **-** |
| **LRF** | **48** | **SERVO** | **Left Ring Finger** | **0-180** | **-** |
| **RPF** | **34** | **SERVO** | **Right Pinky Finger** | **0-180** | **-** |
| **LPF** | **50** | **SERVO** | **Left Pinky Finger** | **0-180** | **-** |
| **Sensors:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **FLAMES** | **A0** | **Flame Sensor** | **Flame Sensor** | **-** | **0-1023** |
| **FRONTS** | **ECHO A1**  **TRIG A2** | **Ultrasonic Sensor** | **Front Sensor** | **-** |  |
| **BACKS** | **TRIG A3**  **ECHO A4** | **Ultrasonic Sensor** | **Back Sensor** | **-** |  |
| **HEATS** | **A5** | **Heat Sensor** | **Heat Sensor** | **-** | **0-1023** |
| **Other:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **FAN** | **36** | **DC Motor** | **Cooling Fan** | **HIGH-LOW** | **-** |
| **EXTRA:** | | | | | |
| **Part Name** | **PIN** | **TYPE** | **Full Name** | **Input Type** | **Output T.** |
| **$1-41** | **41** | **ALL (SERVO)** | **-** |  | **-** |
| **$2-43** | **43** | **ALL (SERVO)** | **-** |  | **-** |
| **$3-45** | **45** | **ALL (SERVO)** | **-** |  | **-** |
| **$4-47** | **47** | **ALL (SERVO)** | **-** |  | **-** |
| **$5-49** | **49** | **ALL (SERVO)** | **-** |  | **-** |
| **$6-51** | **51** | **ALL (SERVO)** | **-** |  | **-** |
| **MX2\_1** | **29** | **DC** | **-** |  | **-** |
| **MX2\_2** | **\*** | **DC** | **-** |  | **-** |
| **MX2\_3** | **33** | **DC** | **-** |  | **-** |
| **MX2\_4** | **35** | **DC** | **-** |  | **-** |
| **PINS Diagram for Chassis Connectors & Plastic:** | | | | | |

**6-PIN Chassis Connector (MALE/BACK):**



1. **Thumb F: GREEN/BROWN ــــ**
2. **Index F: BLUE ـــ ـــ**
3. **Middle F: ORANGE ـــ ـــ**
4. **Ring F: GREEN ـــ ـــ**
5. **Pinky F: BROWN ـــ ـــ**
6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **GND** | **WHITE** | **RED** |
| **-----------** | **LYELL** | **RYELL** |

**6-PIN Nylon Connector (FEMALE/BACK):**

1. **(R/L)armX: ORANGE/BLUE ـــ ـــ**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **HEAD(X/Y): BROWN ـــ ـــ /GREEN ــــ**
4. **VCC: RED ــــ**
5. **GND: BLUE ــــ**
6. **(R/L)shoY: GREEN ــــ**
7. **(R/L)shoX: BROWN ــــ**
8. **(R/L)armY: BROWN ــــ**

**8-PIN Chassis Connector (MALE/BACK):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lower Body Movements:**  **Input Data** | | | |
| **Part Name** | **PIN** | **Input Data *STRINGS*** | **Input Data *INTEGERS*** |
| **ENB** | **2** | **-** | **51000 - 51255** |
| **IN4** | **3** | **FORWARD**  **BACKWARD**  **RIGHT**  **LEFT**  **STOP** | **50501** |
| **IN3** | **4** | **50502** |
| **IN2** | **5** | **50503** |
| **IN1** | **6** | **50504** |
| **ENA** | **7** | **-** | **51000 - 51255** |
| **Lights:** | | | |
| **Part Name** | **PIN** | **Input Data *STRINGS*** | **Input Data *INTEGERS*** |
| **WHITE** | **8** | **WHITE\_ON**  **WHITE\_OFF** | **50511**  **50510** |
| **EYESG** | **9** | **EYESG\_ON** | **50512** |
| **EYESB** | **10** | **EYESB\_ON** | **50513** |
| **RYEL** | **11** | **-** | **50503** |
| **LYEL** | **12** | **-** | **50504** |
| **REDLED** | **13** | **-NONE-** | **-NONE-** |
| **LED3** | **52** | **LED7\_ON**  **LED7\_OFF** | **50515**  **50514** |
| **RGB\_RED** | **31** | **RED: 50516 YELLOW: 50519 VIOLET: 50521 WHITE: 50522** | |
| **RGB\_GREEN** | **27** | **GREEN: 50517 YELLOW: 50519 CYAN: 50520 WHITE: 50522** | |
| **RGB\_RED** | **25** | **BLUE: 50518 CYAN: 50520 VIOLET: 50521 WHITE: 50522** | |
| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 50523 TURN OFF ALL RGB \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **Upper Body Movements:** | | | |
| **Part Name** | **PIN** | **Input Data *BUTTONS*** | **Input Data *SLIDERS*** |
| **HEADX** | **37** | **50001 & 50101** | **1000 - 1180** |
| **HEADY** | **39** | **50002 & 50102** | **2000 - 2180** |
| **LshoY** | **14** | **50003 & 50103** | **3000 - 3180** |
| **RshoY** | **15** | **50004 & 50104** | **4000 - 4180** |
| **LshoX** | **16** | **50005 & 50105** | **5000 - 5180** |
| **RshoX** | **17** | **50006 & 50106** | **6000 - 6180** |
| **LarmY** | **18** | **50007 & 50107** | **7000 - 7180** |
| **RarmY** | **19** | **50008 & 50108** | **8000 - 8180** |
| **LarmX** | **20** | **50009 & 50109** | **9000 - 9180** |
| **RarmX** | **21** | **50010 & 50110** | **10000 - 10180** |
| **RTF** | **24** | **50011 & 50111** | **11000 - 11180** |
| **LTF** | **42** | **50012 & 50112** | **12000 - 12180** |
| **RIF** | **26** | **50013 & 50113** | **13000 - 13180** |
| **LIF** | **44** | **50014 & 50114** | **14000 - 14180** |
| **RMF** | **28** | **50015 & 50115** | **15000 - 15180** |
| **LMF** | **46** | **50016 & 50116** | **16000 - 16180** |
| **RRF** | **30** | **50017 & 50117** | **17000 - 17180** |
| **LRF** | **48** | **50018 & 50118** | **18000 - 18180** |
| **RPF** | **34** | **50019 & 50119** | **19000 - 19180** |
| **LPF** | **50** | **50020 & 50120** | **20000 - 20180** |
| **RIGHT\_HAND** | **@** | **50021 & 50121** | **21000 – 21180** |
| **LEFT\_HAND** | **@** | **50022 & 50122** | **22000 - 22180** |
| **Other:** | | | |
| **Part Name** | **PIN** | **Input Data; *BUTTONS*** | **Input Data; *SENSOR*** |
| **FAN** | **36** | **50524 (OFF) 50525 (ON )** |  |