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INDUSTRIAL PRODUCT DATASHEET

# Robotic Arm Bundle

Highly-integrated robotic arm bundle with frameless torque motor, dual encoder, simple XT30 connection, 24V battery compatibility, and daisy-chain capability.

| SKU | UPDATED |
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# Overview



The Robotic Arm Bundle is a highly-integrated solution featuring a frameless torque motor, absolute encoder, driver circuitry, and planetary reducer. It provides simple connection with one XT30(2+2) cable for power and CAN communication, supports multi-turn position recognition through dual encoders, operates on 24V battery power, and allows daisy-chaining of multiple X4 motors in series via XT30 cables for robotics applications.

# Key Features

- **Highly-integrated** Includes frameless torque motor, absolute encoder, driver circuitry and planetary reducer
- **Simple connection** Needs only one XT30(2+2) cable for power connection and control communication (CAN) interface
- **Dual Encoder** Enables multi-turn position recognition
- **Battery power compatible** Could be used in 24V battery-powered system
- **Daisy-chain capable** Can connect multiple X4 motors in series using XT30 cables for robotics applications

# Product Gallery















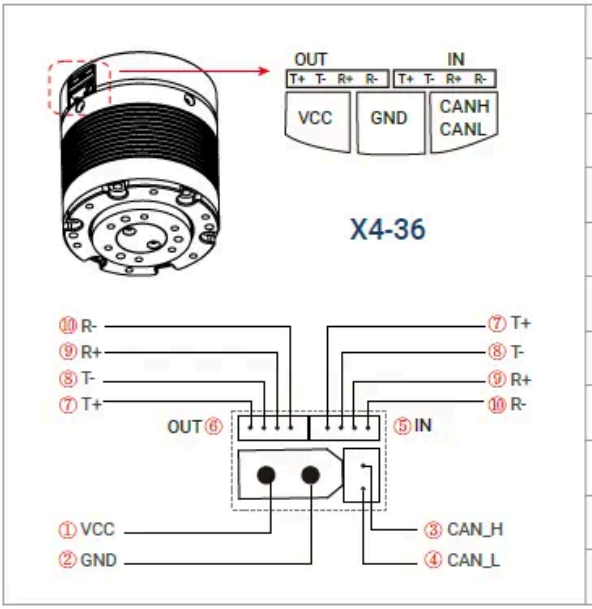
## Specification

| | |
|---|---|
| Product | Myactuator X4-36 Motor |
| Rated Voltage | 24V |
| Operating Temperature | 0℃~50℃ |

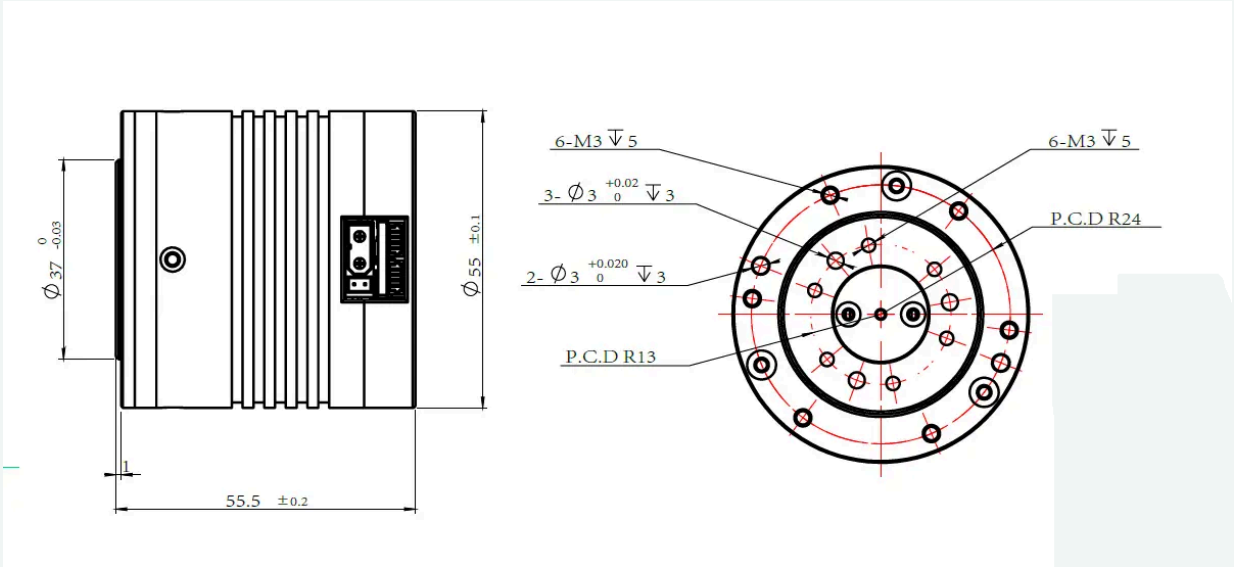
| | |
|---|---|
| Mechanical Dimension | 55mm x 55mm x 61mm |
| Communication Interface | CAN |
| Gear Ratio | 1:36 |
| Rated Output Power | 100 W |
| Rated Torque | 10.5 Nm |
| Peak Torque | 34 Nm |
| Pole pair | 13 |

# Hardware Overview

## X4-36 Interface Description




| Port Definition | Port Description |
|---|---|
| ① VCC | Positive Power Supply |
| ② GND | Negative Power Supply |
| ③ CAN_H | CAN_H Network Information Terminal |
| ④ CAN_L | CAN_L Network Information Terminal |
| ⑤ EtherCAT_IN | EtherCAT Input |
| ⑥ EtherCAT_OUT | EtherCAT Output |
| ⑦ T+ | The master station sends control commands to the module |
| ⑧ T- | The module sends status feedback to the master station |
| ⑨ R+ | The master station feedbacks the module status data |
| ⑩ R- | The module reflects the control commands of the master station |



# Applications

- **Robot Arm**

# Resource Links

- https://www.seeedstudio.com/Robotic-Arm-Bundle.html
- Datasheet
- User Manual
- Control Protocol

**Seeed Technology Co.,Ltd.**
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676
**Web:** www.seeed.cc
**Shop:** www.seeedstudio.com