

MX-28T / MX-28R

Parts Photo



[MX-28T]

[MX-28R]

- ※ Control Table's Compliance replaced by PID.
- ※ The control table's order for PID has changed to DIP from this version onwards. Please make reference of this change.
- ※ Although the MX-28T (TTL) and MX-28R (RS-485) differ in communications protocols both have the same features and perform equally. (TTL uses 3-pin connectors while RS-485 uses 4)

H/W Specification

- MCU : ST CORTEX-M3 (STM32F103C8 @ 72MHZ,32BIT)
- POSITION SENSOR : Contactless absolute encoder (12BIT,360 DEGREE)
 - Maker : ams (www.ams.com), Part No : AS5045
- MOTOR : Maxon
- BAUD RATE : 8000 bps ~ 4.5 Mbps
- CONTROL ALGORITHM : PID CONTROL
- Resolution : 0.088°
- Running Degree
 - - 0° ~ 360°
 - Endless Turn
- Weight : 72g
- Dimension : 35.6mm x 50.6mm x 35.5mm
- Gear Reduction Ratio : 193 : 1
- Stall Torque
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- 2.3N.m (at 11.1V, 1.3A),
 - 2.5N.m (at 12V, 1.4A)
 - 3.1N.m (at 14.8V, 1.7A)

 - No load speed
 - - 50rpm (at 11.1V)
 - 55rpm (at 12V)
 - 67rpm (at 14.8V)
 - Running Temperature : -5°C ~ +80°C
 - **Voltage : 10 ~ 14.8V (Recommended Voltage 12V)**
 - Command Signal : Digital Packet
 - Protocol Type
 - - MX-28T (Half duplex Asynchronous Serial Communication (8bit,1stop, No Parity))
 - MX-28R (RS485 Asynchronous Serial Communication (8bit,1stop, No Parity))
 - Link (Physical)
 - - MX-28T (TTL Level Multi Drop Bus)
 - MX-28R (RS485 Multi Drop Bus)

 - ID : 254 ID (0~253)
 - Feedback : Position, Temperature, Load, Input Voltage, etc.
 - Material : Full Metal Gear, Engineering Plastic Body
 - Standby current : 100 mA
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