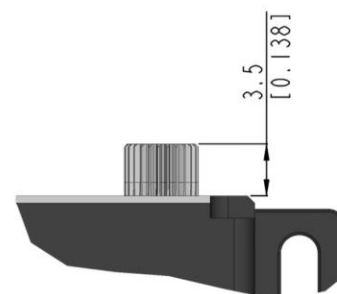
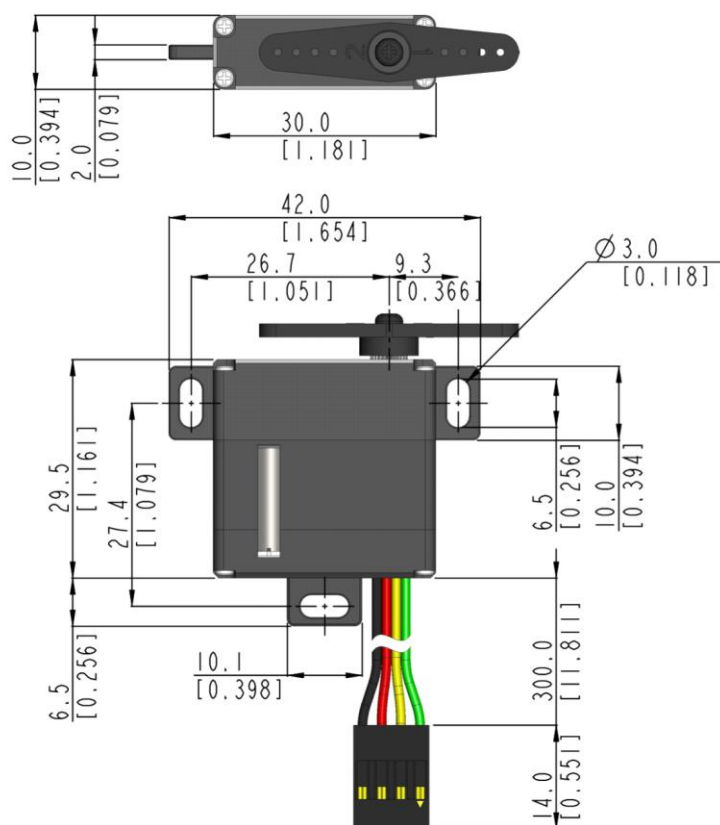


# MD141SH-CAN General Specification.



|                             |                                                                            |                        |                        |                                                                                     |
|-----------------------------|----------------------------------------------------------------------------|------------------------|------------------------|-------------------------------------------------------------------------------------|
| Control System              | CAN 2.0A,B                                                                 |                        |                        | -                                                                                   |
| Position Sensor Type        | Contactless Magnetic Encoder                                               |                        |                        | -                                                                                   |
| Motor Type                  | Coreless                                                                   |                        |                        | At the Max voltage, it is recommended to be used only for a short time duration.    |
| Operating Voltage Range     | 4.0 ~ 8.4V                                                                 |                        |                        |                                                                                     |
| Voltage                     | -                                                                          | 6.0V                   | 7.4V                   | At 25°C(±10%), 45%RH(±10%)<br><u>measurement environment</u>                        |
| No Load Speed               | -                                                                          | 0.13sec/60°            | 0.10sec/60°            |                                                                                     |
| Stall Torque                | -                                                                          | 5.7kgf·cm (79.16oz-in) | 7.0kgf·cm (97.21oz-in) |                                                                                     |
| Peak Efficiency Torque      | -                                                                          | 1.1kgf·cm (15.83oz-in) | 1.4kgf·cm (19.44oz-in) |                                                                                     |
| Standing Current            | -                                                                          | 27mA                   | 27mA                   |                                                                                     |
| No Load Running Current     | -                                                                          | 130mA                  | 160mA                  |                                                                                     |
| Stall Current               | -                                                                          | 2,000mA                | 2,500mA                |                                                                                     |
| Deadband                    | -                                                                          | n/a                    | n/a                    |                                                                                     |
| Operating Travel            | Servo Mode : ±60°(Default), ±150°(Programmable) / Turn Mode : ±32760 Turns |                        |                        | F/W v1.5 or Higher version                                                          |
| Continuous Rotation         | n/a                                                                        |                        |                        | -                                                                                   |
| Operating Temperature Range | -20°C ~ +60°C (-4°F ~+140°F)                                               |                        |                        | -                                                                                   |
| Storage Temperature Range   | -30°C ~ +80°C (-22°F ~+176°F)                                              |                        |                        | -                                                                                   |
| Connector Wire Length       | 300mm (11.811inch)                                                         |                        |                        |  |
| Connector Wire Gauge        | 24AWG                                                                      |                        |                        |                                                                                     |
| Dimensions                  | 30.0mm x 10.0mm x 29.5mm (1.181inch x 0.394inch x 1.161inch)               |                        |                        | General Tolerance ±0.1mm                                                            |
| Weight                      | 26.7g (0.942oz)                                                            |                        |                        | Excluding the weight of Horn                                                        |
| Bearing Type                | 2 Ball Bearing                                                             |                        |                        | -                                                                                   |
| Case Material               | Aluminum Alloy                                                             |                        |                        | -                                                                                   |
| Gear Material               | 1 Metal-Plastic & 4 Steel Gears                                            |                        |                        | -                                                                                   |
| Gear Train Backlash         | Max 0.5°                                                                   |                        |                        | -                                                                                   |
| Horn Gear Spline            | M25T(Ø5)                                                                   |                        |                        | -                                                                                   |
| IP-Rating                   | IP4X                                                                       |                        |                        | -                                                                                   |
| Servo Amplifier Type        | 32bit Programmable Digital                                                 |                        |                        | -                                                                                   |



1:1 scale (Unit : mm[inch])

- This product should not be used directly on the human body for medical purposes.
- All specifications are subject to change without notice.
- Be careful as strong magnetic fields may cause malfunction of the product.

