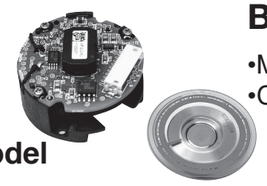
ABSOLUTE TYPE

N35MA Model



Battery less Multi turn

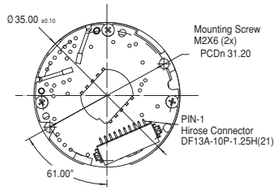
- Module type
- Compact (ϕ35)

Model

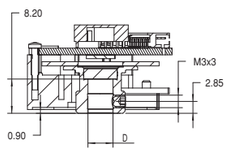
N35MA– □ □□ – □□ – □ –000-00E

- Single / Multi-Turn: S:Single-turn, M: Multi-turn
- Resolution BIT: 20 : 20-Bit Resolution (ST20bit), 36 : 36-Bit Resolution (ST20bit / MT16bit)
- Serial Protocol: 01 : BiSS-C, 03 : RS-485 half-duplex
- Shaft Diameter: 5 : 5mm, 6 : 6mm
- Complying with RoHS

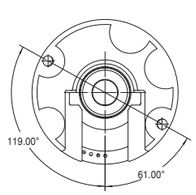
Dimension



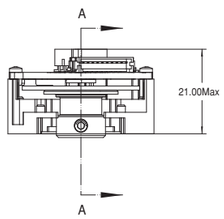
Front-1



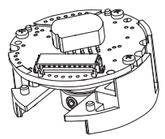
Section A-A



Back-1



Side

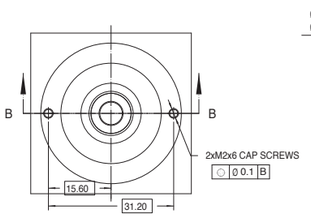


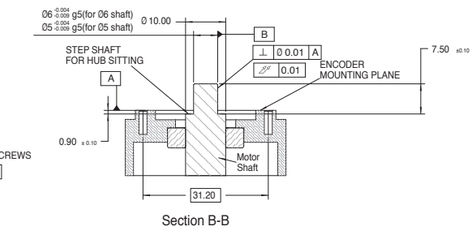
General-1

TABLE 1:

D	HUB ID
5	Ø 5.000 +0.012 +0.004 H7
6	Ø 6.000 +0.012 +0.004 H7

Mounting





Section B-B

Electrical Spec.

Current Consumption	200mA Max(No load)
Supply Voltage	5V ± 0.5V
Electrically Permissible Speed	< 10000 min^{-1}
Initialization Time	< 500 ms

Mechanical Spec.

System Accuracy (With electrical correction)	±120 Arc-sec (T_{amb} = 25˚C)
Mechanical Permissible Speed	< 10000 min^{-1}

Connection

Pin No	BiSS-C	RS-485
1	VCC, Encoder Supply	VCC, Encoder Supply
2	GND, Ground	GND, Ground
3	MA+	DATA+
4	MA–	DATA–
5	SLO+	Phase Calibration Signal 1
6	SLO–	Phase Calibration Signal 2
7	Phase Calibration Signal 1	Phase Calibration Signal 3
8	Phase Calibration Signal 2	Phase Calibration Signal 4
9	Phase Calibration Signal 3	N/A
10	Phase Calibration Signal 4	N/A

※Recommended mating connector:

Hirose Part No: DF13-10S-1.25C (CL No.536-0006-8)

Hirose (Terminal Pin for Wire 26~30AWG): DF13-2630SCF (CL No.536-0300-5)

Environmental Spec.

Storage Temperature	– 20 to + 105°C
Operating Temperature	– 20 to + 105°C
Relative Air Humidity (Non-Condensing)	90%RH (T_{amb} = 60˚C)
Vibration	10G; 10 to 2000Hz
Shock	6ms; Half Sine; 200G
Electrostatic Discharge (Module level)	2kV

Data communication

BiSS-C		RS-485	
Interface	Circuit	Interface	Circuit
Serial Clock(MA)	Transceiver(P/N:SN65LBC179Q)	Serial Data(DATA+)	Transceiver(P/N:ISL8485SE)
Serial Data(SLO)	Transceiver(P/N:SN65LBC179Q)	Serial Data(DATA−)	Transceiver(P/N:ISL8485SE)

[Note]

There are an Alignment Fixture and a Phase calibration kit (Biss-C or RS-485) available separately.

Please contact our Sales for inquiries about this product of details.