

NEMICON

ABSOLUTE TYPE

Battery less 42bit Multi turn

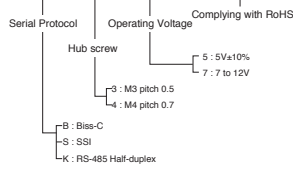
N33MA Model



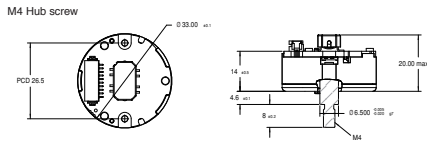
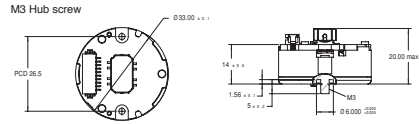
- Module type
- Full Magnetic

N33MA

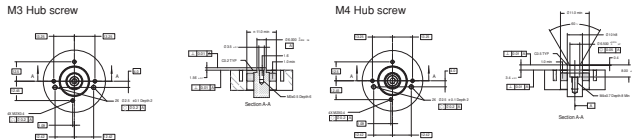
Model
N33MA-M42 - -00E



Dimension



Mounting



Electrical Spec

Resolution	Multi turn	24bits
	Single turn	18bits
Current Consumption(No load)		65mA Max (5v) 55mA Max (7v)
Supply Voltage		5V ± 10% or 7 to 12V
Electrically Permissible Speed		< 12000 min ⁻¹
Initialization Time		< 1s

Mechanical Spec.

System Accuracy (With electrical correction)		± 313 Arc-sec
Mechanical Permissible Speed		< 12000 min ⁻¹
Shaft Play	Axial	≤ ± 0.2mm
	Radial	≤ ± 0.05 mm

Connection

Pin No	SSI	BiSS-C	RS-485
1	GND	GND	GND
2	VDD	VDD	VDD
3	SCLK-	MA-	NC
4	SCLK+	MA+	NC
5	DAT-	SLO-	DATA-
6	DAT+	SLO+	DATA+
7	SPI CLK	NC(1)	NC(1)
8	SPI DO	NC(1)	NC(1)
9	SPI DIN	NC(1)	NC(1)
10	GND	GND	GND

Note (1): Do not connect during operation

※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		- 40 ~ + 115°C
Operating Temperature		- 40 ~ + 115°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)		± 4kV

Data communication

SSI		BiSS-C		RS-485	
Interface	Circuit	Interface	Circuit	Interface	Circuit
Shift Clock (SCLK)	Receiver (P/N:ISL3283E)	Serial Clock(MA)	Receiver (P/N:ISL3283E)	Serial Data (DAT)	Receiver (P/N:ISL3283E)
Data Output (DAT)	Transmitter (P/N:ISL3295E)	Serial Data(SLO)	Transmitter (P/N:ISL3295E)	Serial Data (DAT)	Transmitter (P/N:ISL3295E)

[Note]

There are an Alignment Fixture and an Accuracy calibration station (SSI, BiSS-C or RS-485) available separately.

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

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