

Absolute type



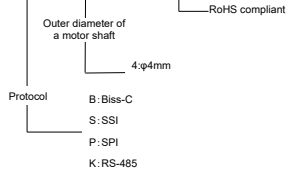
Small

- ◇ Magnetic Battery-less
- ◇ Module type(OD Φ20mm)

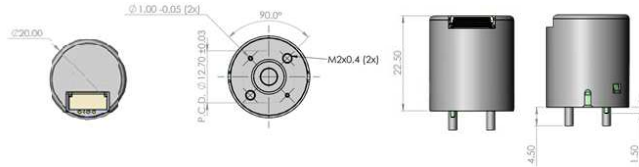
N20MA Series

Model

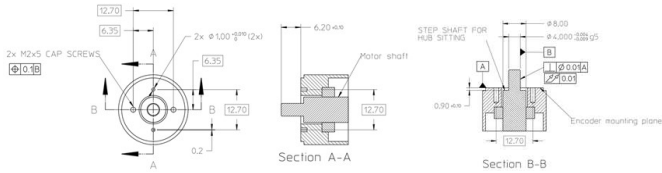
N20MA - M42 - 4 - 00E



Dimension



Mounting



Electrical Spec

Supply Voltage	5V ± 10% or 7V
Supply Current	40mA
Single Turn Accuracy	±360 Arc-sec
Power on Standby	500 ms
Output	V _{OH} (No Load) More than 4.4 V (VCC 5V)
Voltage	V _{OL} Less than 0.5 V
Input	V _{IH} 2.8 to 5.5 V
Voltage	V _{IL} 0 to 1.8 V
Resolution	Multi turn 24-bit (32-bit max)
Single turn	18-bit
Permissible Speed	< 12000 min ⁻¹
Transmission Length (Max.)	25 meter

Environmental Spec

Operating Temperature	-40 to + 115 °C
Storage Temperature	-40 to + 115 °C
Relative Humidity (non-condensing)	RH 90% or less
Vibration	30G; 10 to 2000Hz
Shock	6ms; Half Sine; 200G
ESD (HBM), JS-001-2014	±2kV

Electrical Connections

Pin	BISS-C	SSI (MISO)	RS-485	SPI
1	+5V	+5V	+5V	+5V
2	0V	0V	0V	0V
3	MA+	SPI-CLK/SCLK+	DATA+	SPI-CLK
4	MA-	MOSI/SCLK-	DATA-	MOSI
5	SLO+	MISO/DATA+	NC	MISO
6	SLO-	SPI-NCS/DATA-	NC	SPI-NCS
7	NC	SEL1	NC	NC
8	NC	SEL2	NC	NC

Connector Model: SM08BSRSS TB(LF)(SN), JST

Note

- (1) SEL1 and SEL2 pins are required during calibration by switching to SPI communication mode
- (2) SSI option is configured via the shared SPI pins

Data communication

BISS-C		SSI		RS-485		SPI	
Interface	Circuit	Interface	Circuit	Interface	Circuit	Interface	Circuit
Shift Clock (MA)	Transmitter (P/N:ISL3295E)	Shift Clock (SCLK)	Transmitter (P/N:ISL3295E)	Serial data (DATA+)	Transmitter (P/N:ISL8405E)	Shift Clock (SPI-CLK/MOSI/ SPI-NCS)	Transmitter (P/N:ISL3295E)
Data Output (SLO)	Receiver (P/N:ISL3283E)	Data Output (DATA)	Receiver (P/N:ISL3283E)	Serial data (DATA-)	Receiver (P/N:ISL8405E)	Data Output (MISO)	Receiver (P/N:ISL3283E)

[Note]

There are an Alignment Fixture and an Accuracy calibration station available separately. Please contact our Sales for inquiries about this product of details.

We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Scan here and get an overview of personal contacts!



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