



Rotary Magnetic Absolute Encoder

Model CE36M

CE36M is Rotary Magnetic Absolute Encoder, provides High Accuracy to minimize the system error with MIDORI interpolation error compensation method.

Main Features

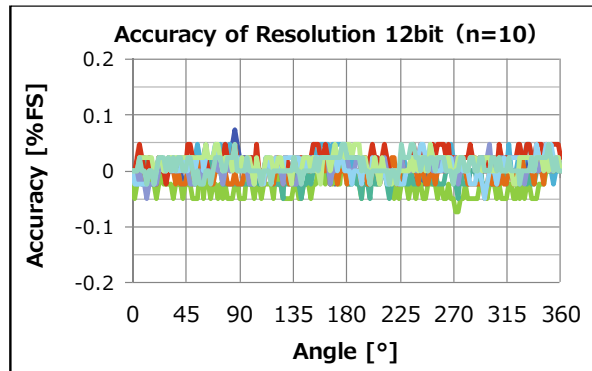
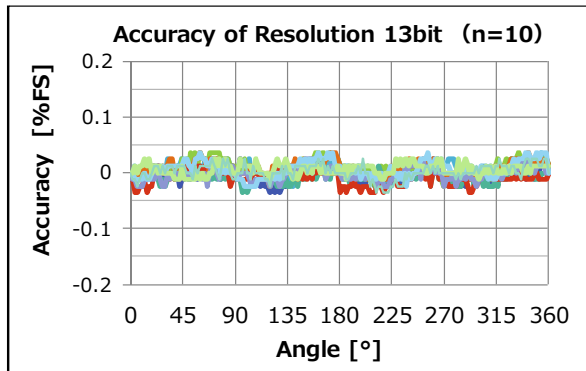
- High Accuracy
Resolution 13 bit. Accuracy 11 bit.
- Excellent Repeatability : ± 1 LSB
- High Speed Update Period : 12KHz
- Various Serial Data Output
RS-422 compatible, supports serial interface, ASI, SPI, SSI.
- Extreme Environment Resistance
High vibration & shock, High operating Temp., EMC and IP67.



Main specifications

Resolution		12bit per rev.	13bit per rev.
Accuracy over Full Scale		$\pm 0.1\%$ FS (10bit equivalent)	$\pm 0.05\%$ FS (11bit equivalent)
Internal Position Update Period		24.4kHz	12.2kHz
Power Supply		DC5 $\pm$ 0.5 V	
Current Consumption		Max. 150mA	
Max. Physical Speed		10,000 rpm	
Operating Temp. Range		-20 $\sim$ +80 $^{\circ}$ C	
Output	Interface	RS-422	
	Format	ASI, SPI, SSI	
Vibration		200 m/s ² (IEC60068-2-6)	
Shock		1000 m/s ² (IEC60068-2-27)	
EMC		(EMI) IEC61000-6-4 (EMS) IEC61000-6-2	
IP Rating		IP50/IP67 (ISO60529)	
Mass		100g	

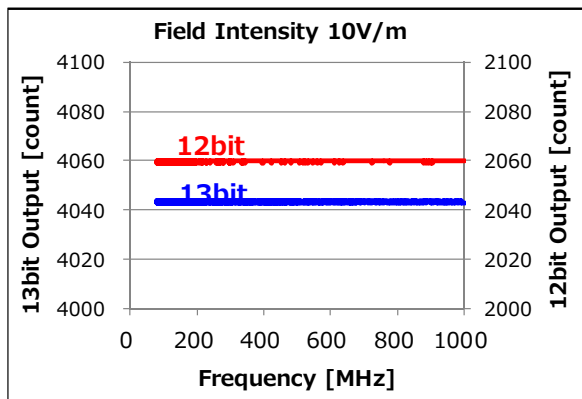
High Accuracy



Environmental Performance

RF immunity (IEC61000-4-3)

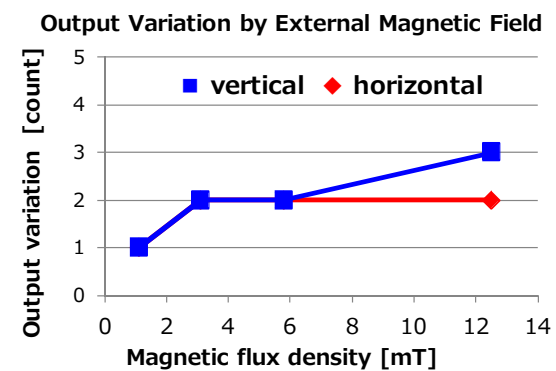
→ Less influenced by electromagnetic wave



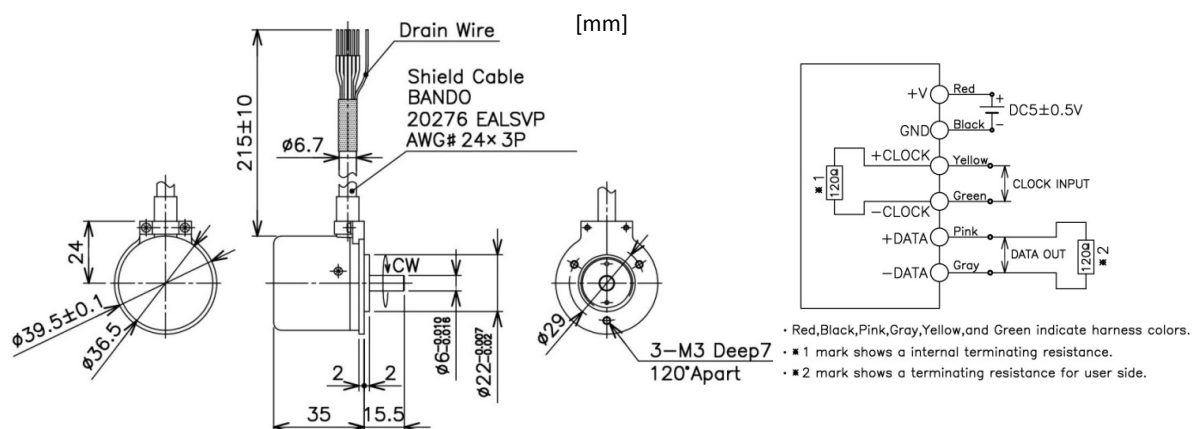
Influence of External Magnetic Field

(Static Magnetic Field 0-12mT)

→ Less influenced by Magnetic Field



Dimensions & Connection



MIDORI PRECISIONS CO.,LTD.

3-2-8, Shinmeidai, Hamura-shi, Tokyo, 205-0023, JAPAN TEL: +81-425-554-5650 FAX: +81-425-554-5950
Website : <http://www.midori.co.jp> E-mail : overseas@midori.co.jp

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

Office North America:

Angst+Pfister North America Inc.
10391 Brecksville Rd.
US-Brecksville, OH 44141
Phone +1 440 375-5212
info.apus@angst-pfister.com

Scan here and get an overview of personal contacts!



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