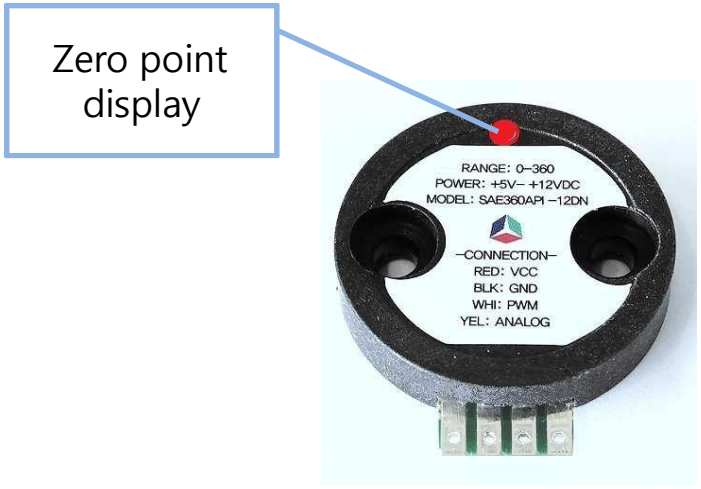
모델: SAE360API-12DN-XY 데이터 쉬트

(Contactless)

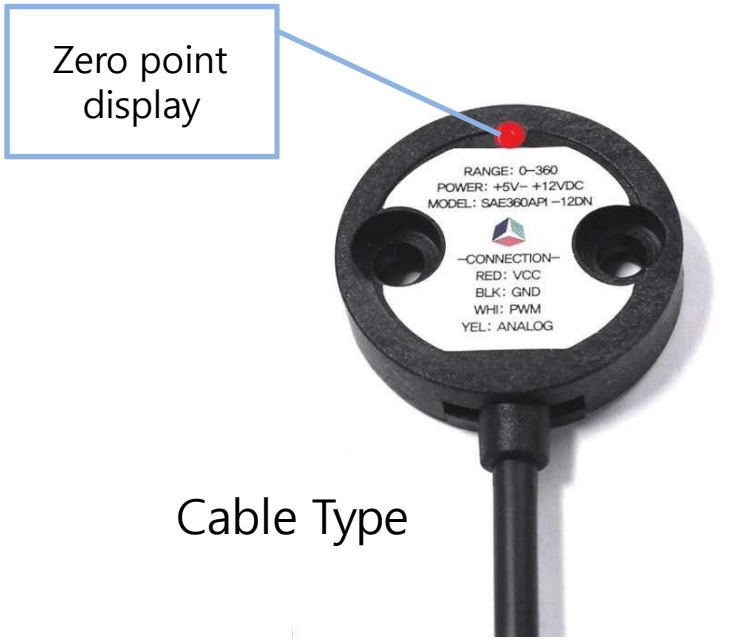
(주)세라

http://www.sera.kr

[Product View & Model]



PCB Type



Cable Type

SAE360API-12DN-XY(옵션)

X=P (PWM)
X=A (ANALOG)
Y=P (PCB)
Y=C (Cable)

[Zero Position]

이 기능을 이용하여 영점(0) 위치를 쉽게 찾을 수 있다.

1) 엔코더 설치 후 서서히 회전 시킨다.

2) 회전 방향의 포지션 위치에 따라 LED 밝기가 변한다.

3) LED밝기 최대 또는 최소 상태가 영점(0) 위치다.

ZERO 위치 표시장치
(LED ON)

[Features]

- 고 정밀 회전 각 및 포지션 측정.
- 자기검출 방식 엡솔루트 형 로타리엔코더 .
- 다양한 인터페이스(PWM / ABI /Analog / SPI)
- 제로 위치 표시장치(제품 후면 LED ON)
- Contactless 방식의 반 영구적 수명.
- MXD6 재질의 견고한 Housing
- 역 극성 방지기능

[Specifications]

항목	사양	단위	참조1	참조2
사용전압	+5 /+6~+12	V	Voltage	
소비전류	≒10	mA	Ampere	
출력모드	1)Digital	Puls	고속모드	ABI / SPI
	2)Analog	V	저속모드	1/2Position=2.5V
출력해상도	Max 14	Bit	SPI	
측정 범위	0~360(±180)	º	연속 측정	
측정회전 수	Max 20,000	rpm	ABI	
직선 성	0.1<	%	FS	Analog
응답시간	50<	us		
Hysteresis	0.1<	%	FS	
부하저항	10K >	Ω		

[Specifications]

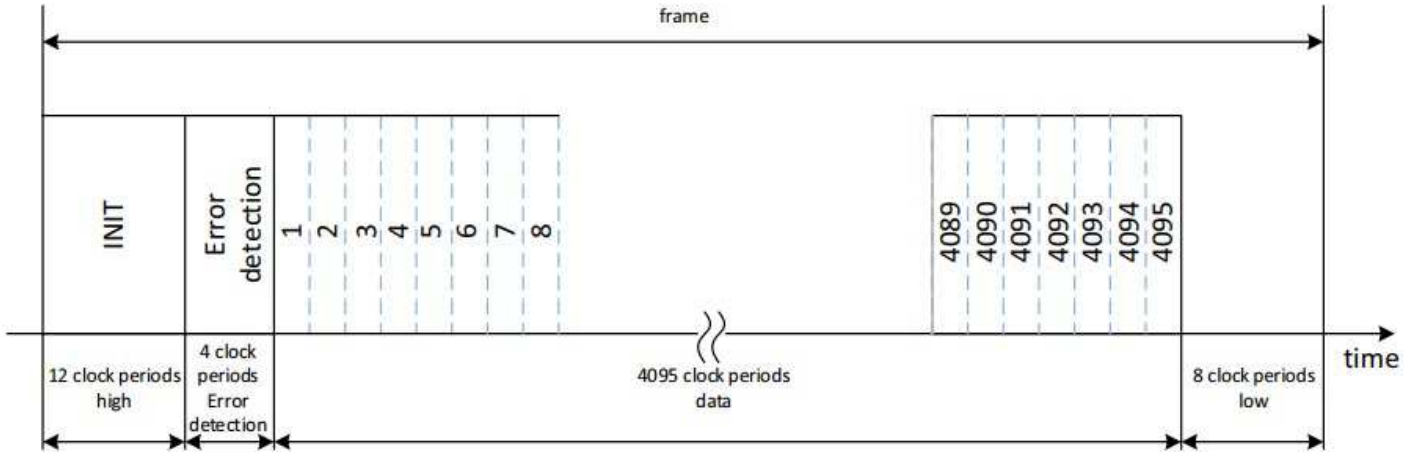
Environmental

항목	사양	단위	참조1	참조2
동작 온도	-20~+100	℃		PBT 재질
보관온도	-40~+150	℃		〃
무　　게	≒3.3	g		〃
수　　명	Semi-permanent	Lfs		〃
진동특성	200㎜²/s, 5-500hz, 10minutes, 3axis, 5times			〃
충격특성	1,000㎜²/s, 10ms, 3axis, 5times			〃
E M S	100V/m 200Mhz-1Ghz(ISO11452-2)			〃
E S D	MAX±16(IEC61000-4-2)—Housing to Terminal			〃
방수등급	IP65			〃
재　　질	Housing: PA-MXD6 , Cable : PVC			

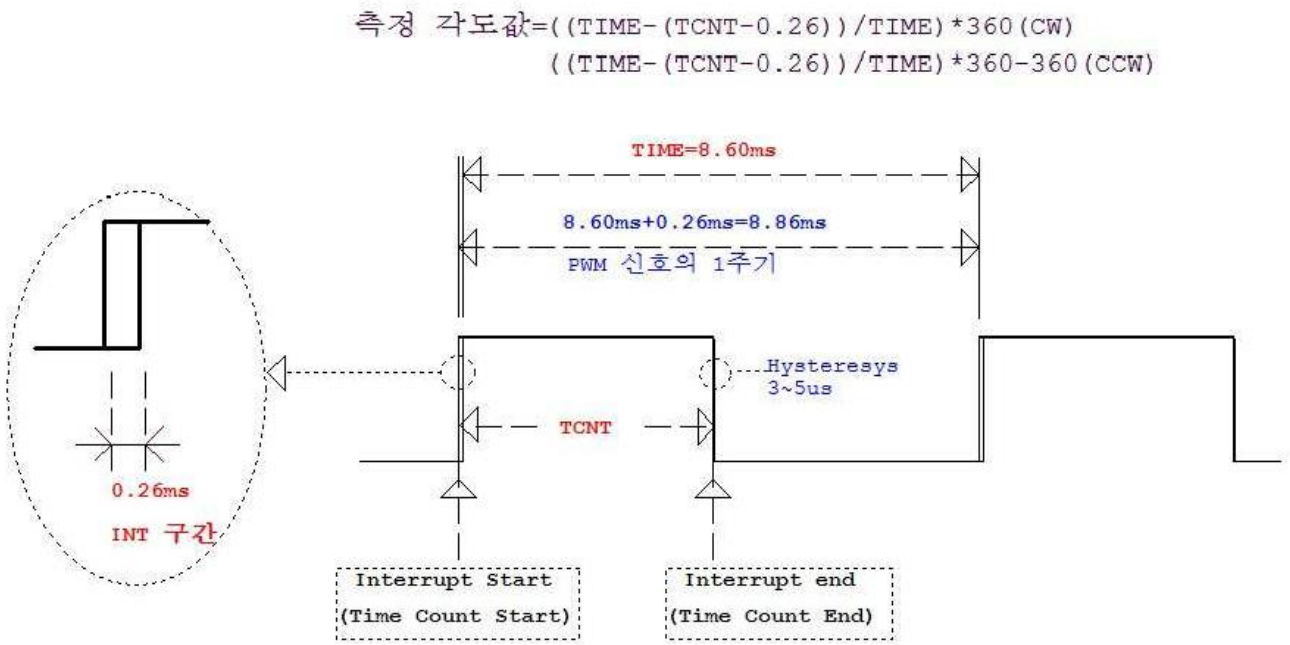
[Application]

- 로봇(Robot)
- 모터(Motor)
- 기울기 센서(Tilt Sensor)
- 자이로 스코프(Gyroscopes)
- 장난감(Toy)
- 자동차(Automobile)
- 건설(Construction)
- 기계(Machine)
- 선박(Ship)
- 의료(Medical)
- 기타

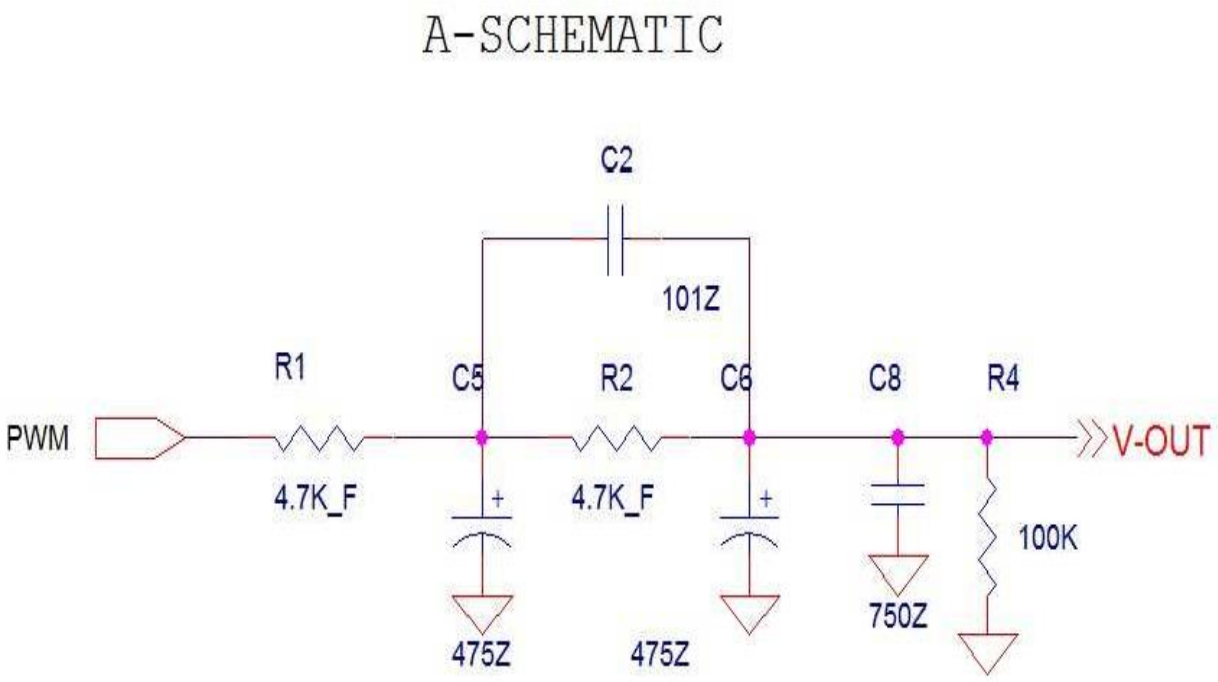
[PWM Signal 12bit Resolution]



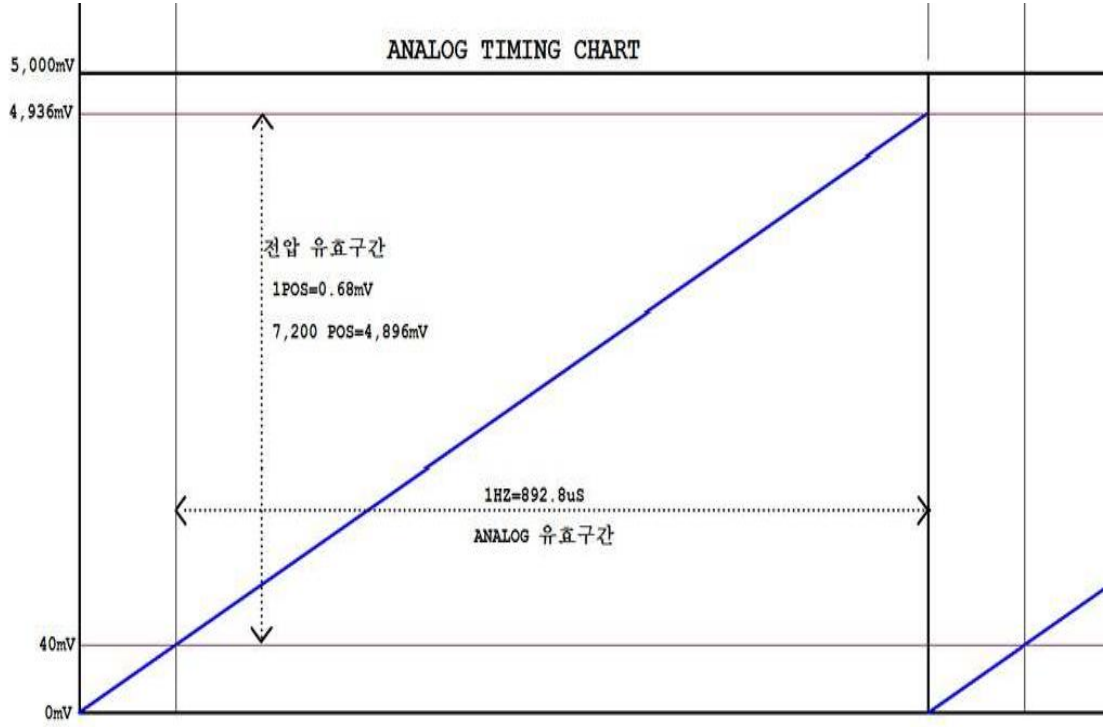
[PWM Outputs Timing Chart (Program Reference)]



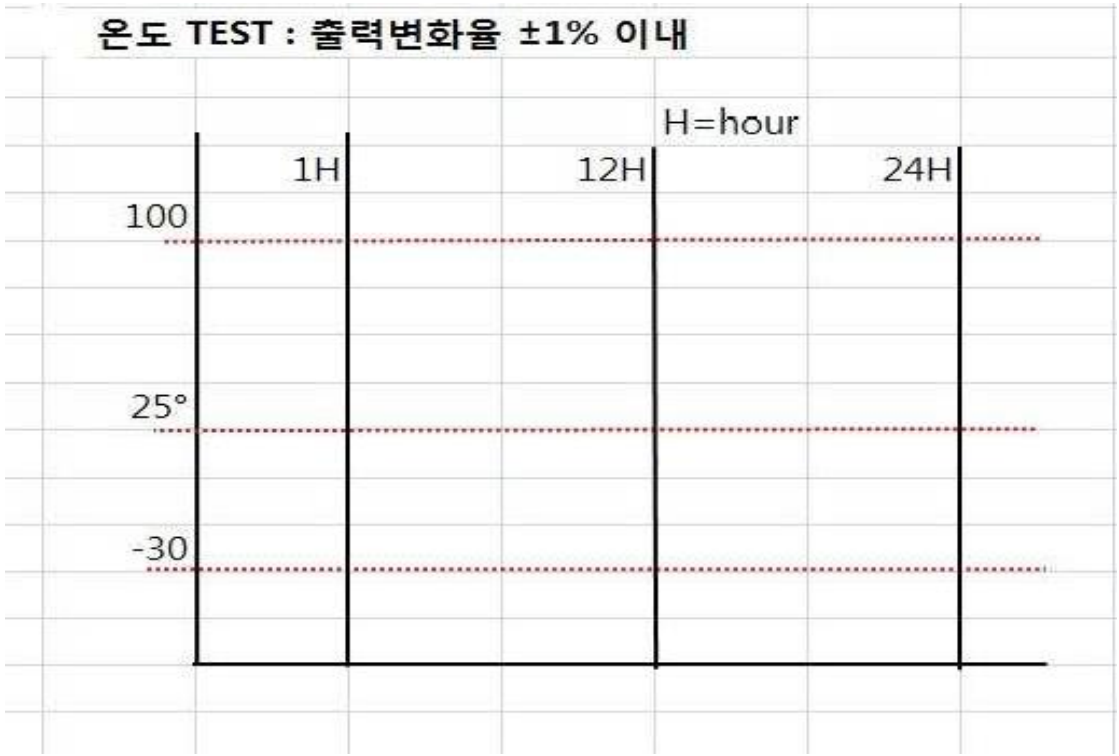
[PWM-Analog Converter]



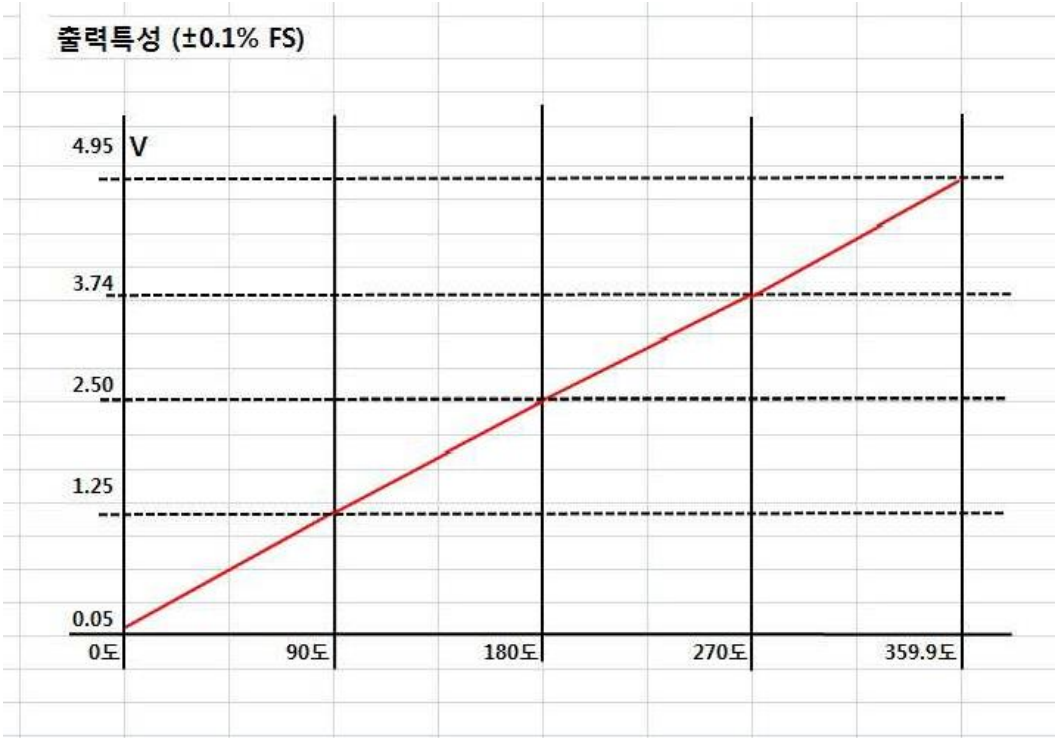
[Analog Outputs Timing Chart]



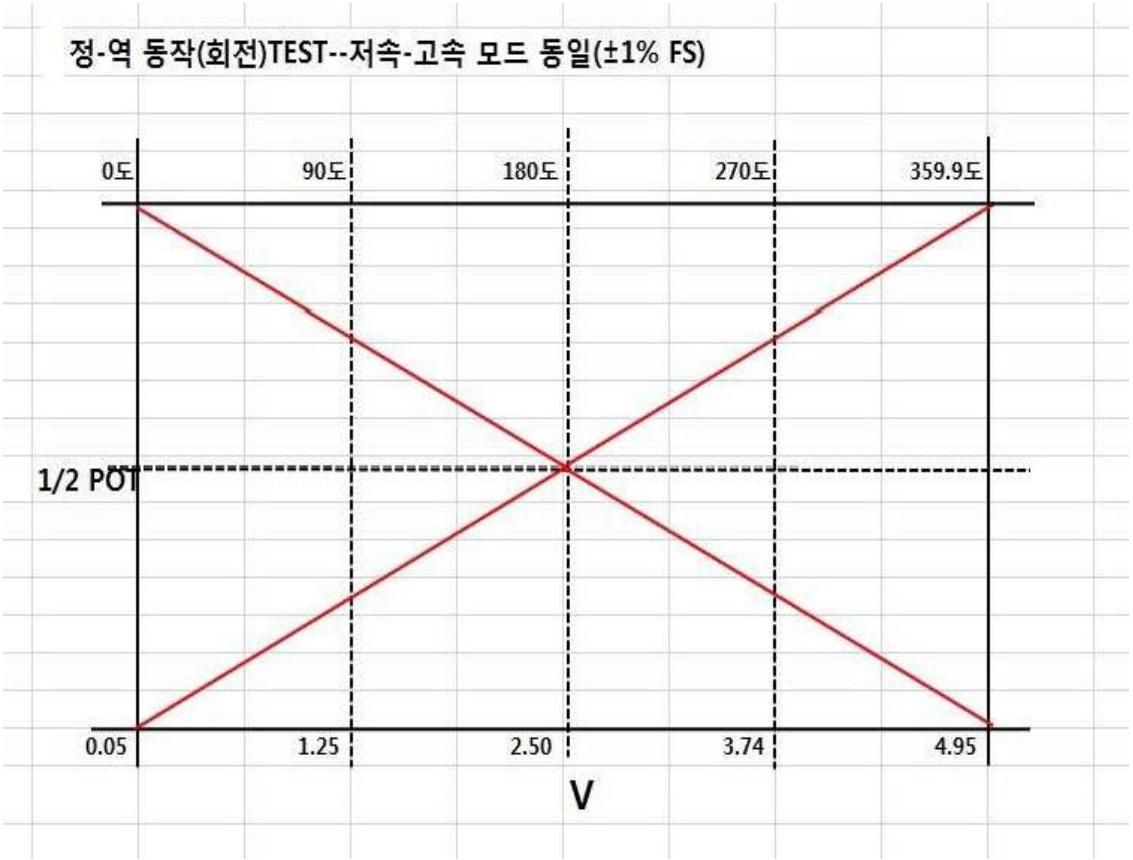
[Analog Output characteristic]-Temperature



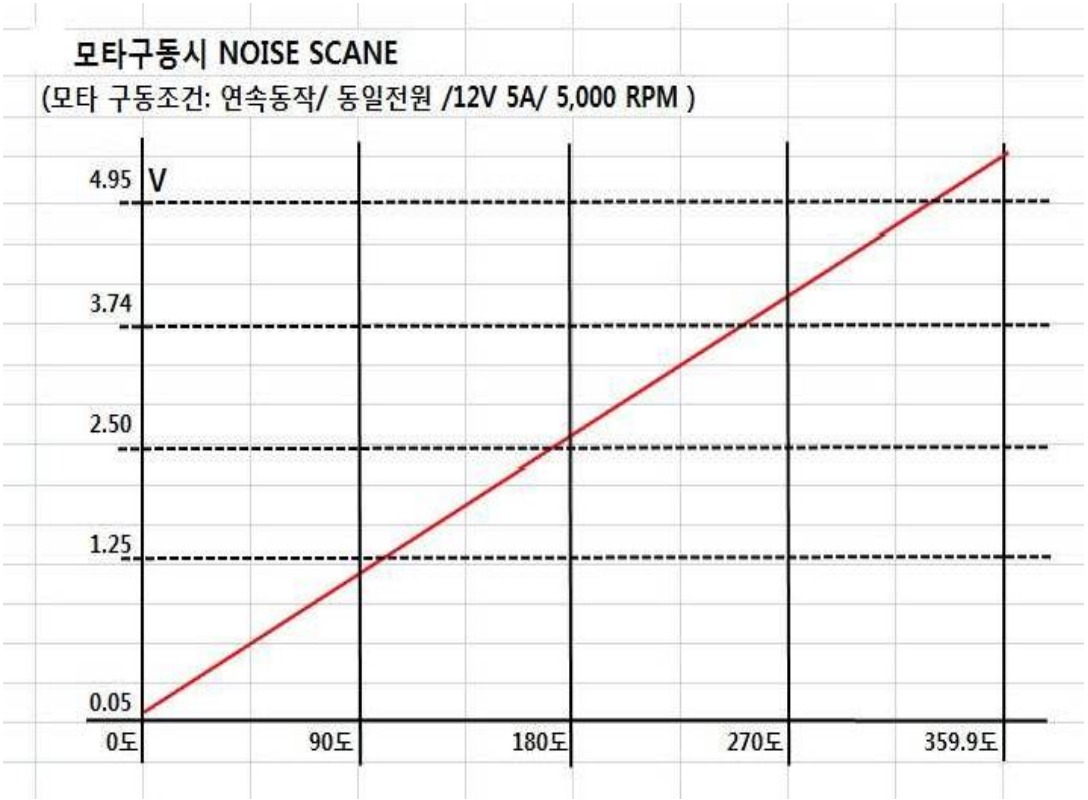
[Analog Output characteristic]-Analog



[Analog Output characteristic]-Forward-Reverse

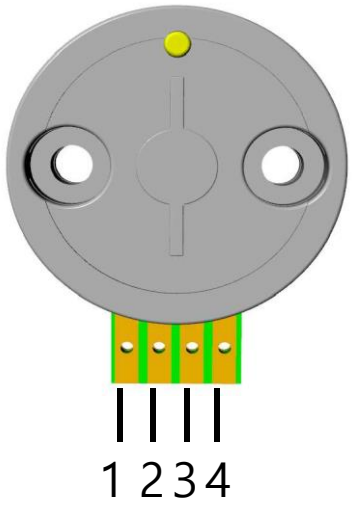


[Analog Output characteristic]-Noise Scan



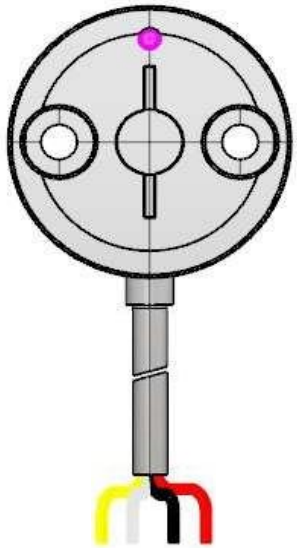
[Pin Assignment]

PCB Type



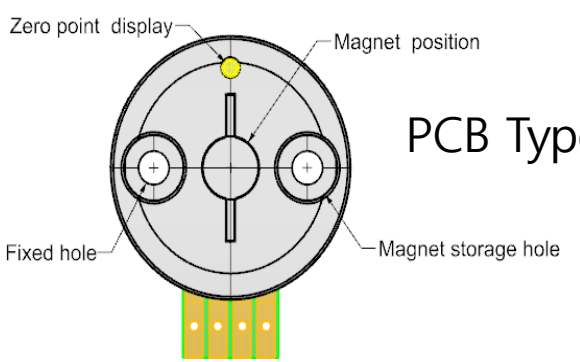
SME360API-12

Cable Type



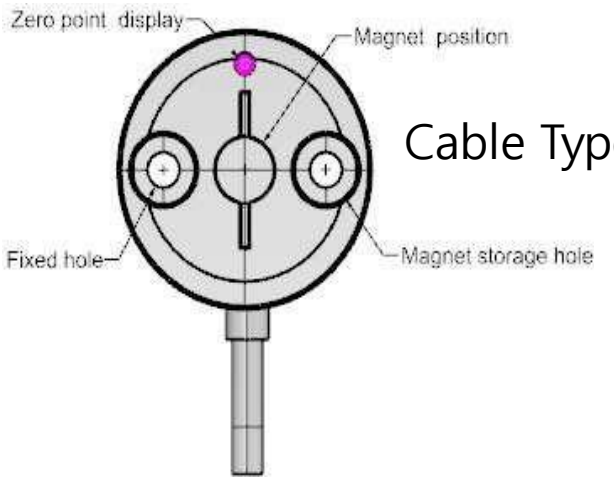
1) Y------ANALOG(SDA)
2)W-----PWM(SCL)
3) B------GND
4) R------VCC(+6V~12V)

[Location description]



PCB Type

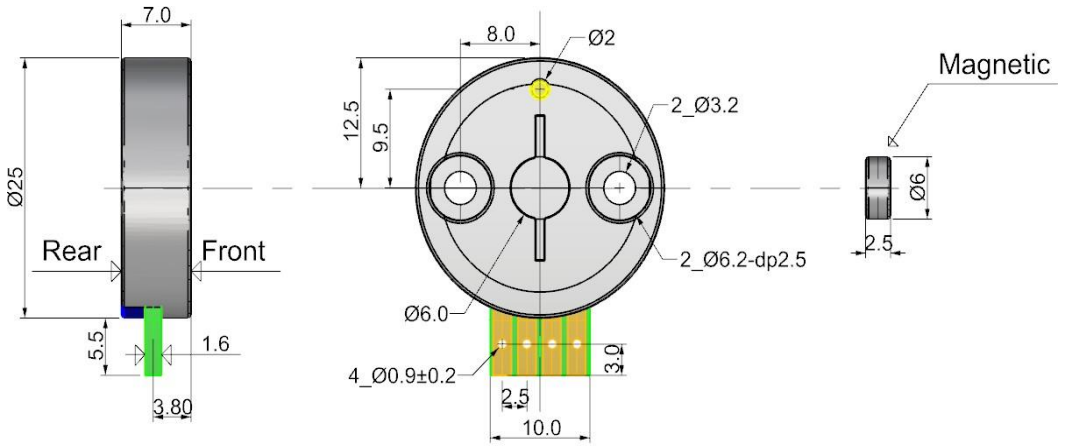
SME360API-12 Location description



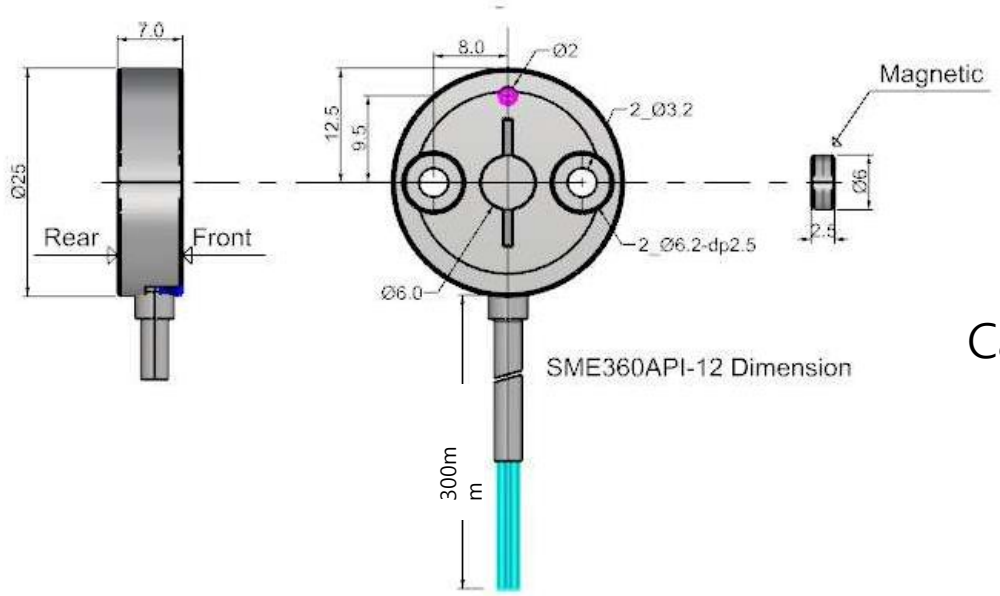
Cable Type

[Dimension]

PCB Type



SME360API-12 Dimension

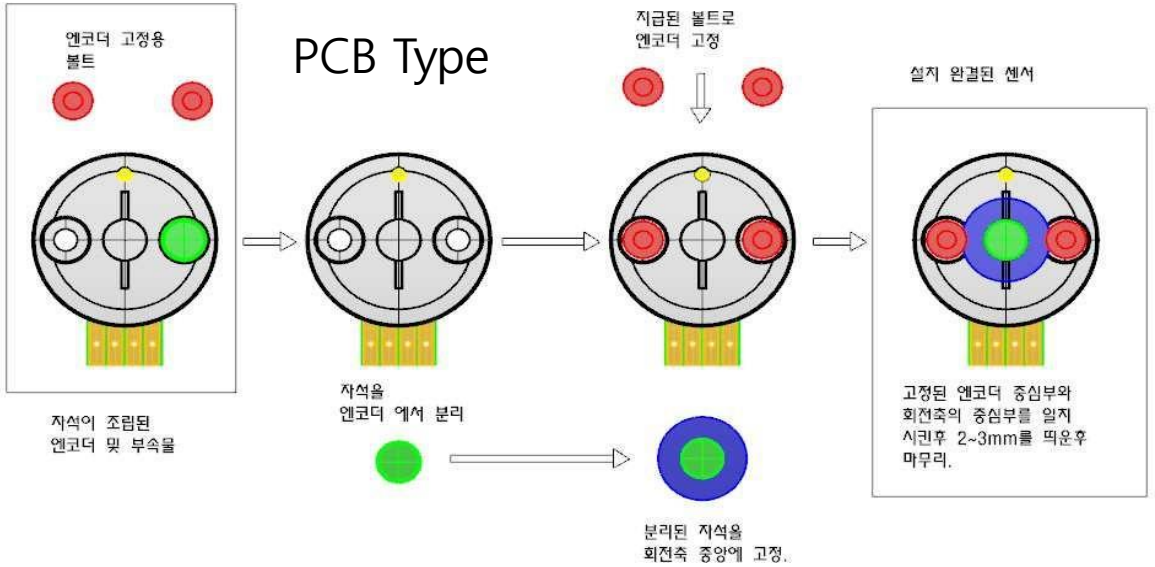


SME360API-12 Dimension

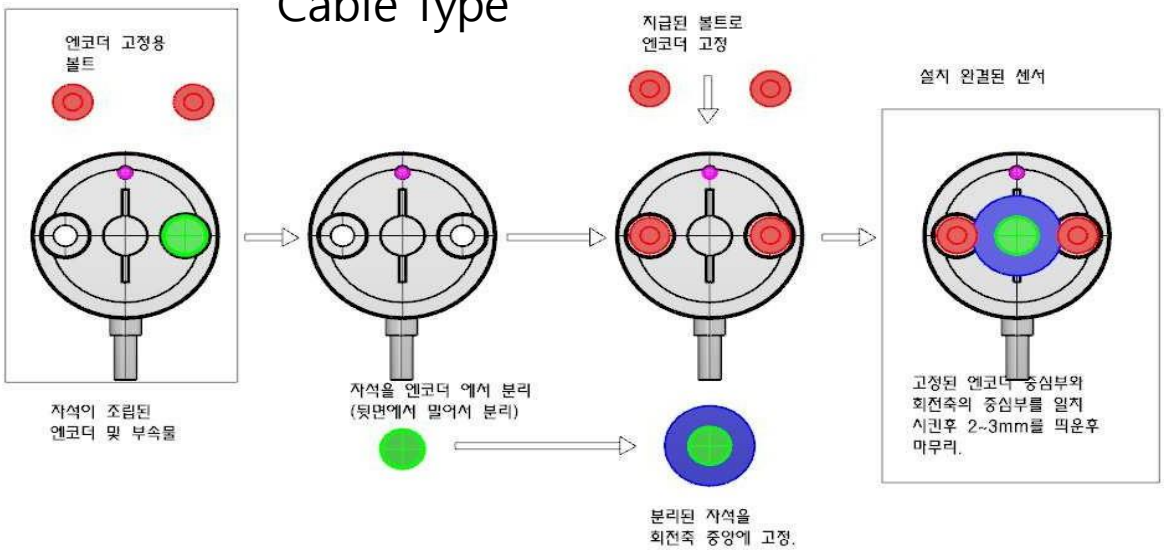
Cable Type

[Fixing procedure]

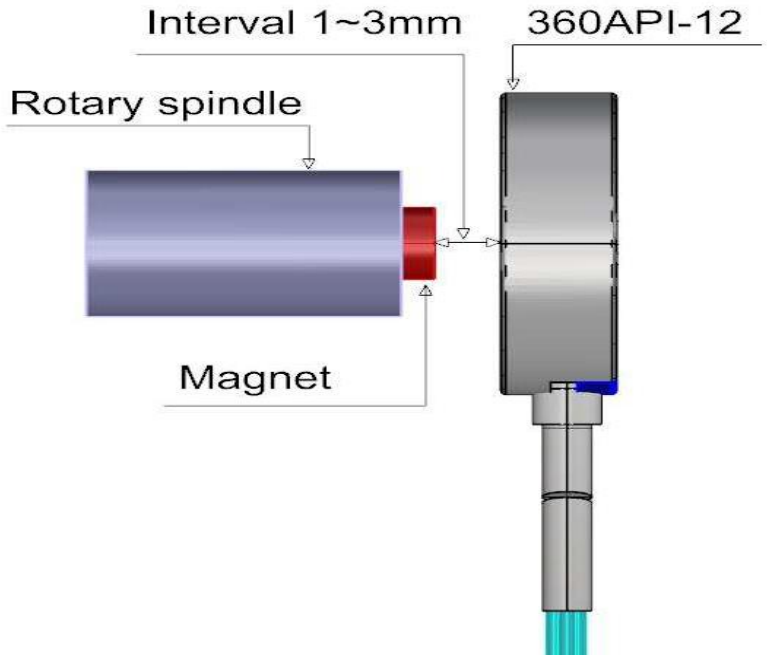
PCB Type



Cable Type



[Magnet Spacing]



[Coupling Device]