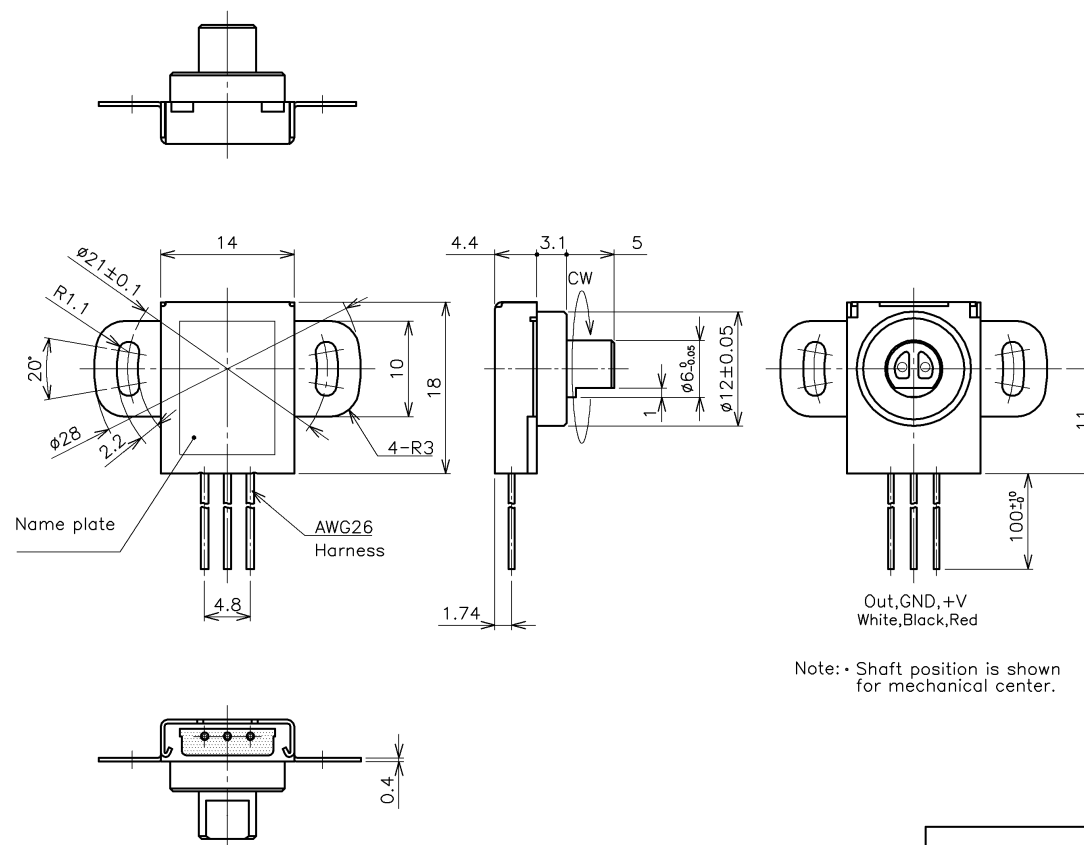


Fig.1

Dimension



Note: • Shaft position is shown for mechanical center.

Fig.2

Output characteristic

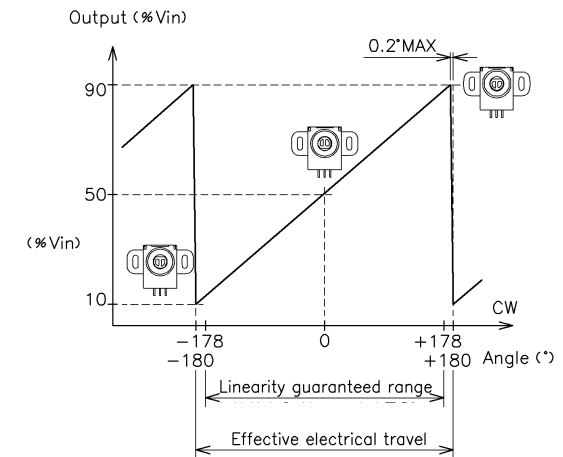
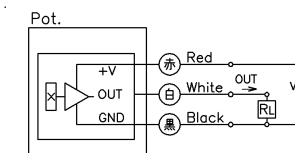


Fig.3

Schematic



• Red, white and black indicate harness colors.

承認 APPROVED	山崎				
検閲 CHECKED	山崎				
作成 DRAWN	大滝				
年 月 日 DATE		DESCRIPTION	承認 APPROVED	検閲 CHECKED	作成 DRAWN

A3

REFERENCE DRAWING		CUSTOMER/SPEC. NO.	
MODEL: CP-1HX-360R2			
承認 APPROVED	山崎	TOLERANCE	DATE 2018. 7.17
検閲 CHECKED	山崎	±10 ±0.25	SCALE 2:1
作成 DRAWN	大滝	10< ±100 ±0.5	DRAWING PRACTICE
		100< ±1.0	
		ANGLE ±1.5°	
		MIDORI PRECISIONS CO., LTD.	
		DRAWING NO. A-C1H-B19	
		REV. 0	

This product compliance with RoHS.Specifications

Output characteristic	: See Fig.2
Effective electrical travel	: $\pm 180^\circ$
Absolute linearity	: $\pm 2\% \text{FS}$ ($= \pm 7.2^\circ$) : ($\text{FS} = \pm 180^\circ$)
Input voltage	: $\text{DC} 5\text{V} \pm 0.5\text{V}$
Load resistance (R _L)	: 10k Ω Min.
Supply current	: 10mA Max.
Insulation resistance	: 100M Ω Min. DC50V (Room temp. and humidity)
Resolution	: 12bit (0~100%Vin)
Hysteresis	: 1%FS Max.
Response time	: 0.9ms MAX. (Electrical delay of output for mechanical input)
Temp. Characteristic	: $\pm 1\% \text{FS}$ ($\pm 3.6^\circ$) (Reference temp.+25 $^\circ\text{C}$ -40~+85 $^\circ\text{C}$)
Total mechanical travel	: 360°Continuous
Torque	: 3 mN·m Max.
Mass	: Approx. 5g
Radial load tolerance	: 30N
Axial load tolerance	: 10N
Harness strength	: Harness tensile 10N, 1minute all wires.
Dimension	: See Fig.1
Schematic	: See Fig.3

Operating temperature range : -40~+85 $^\circ\text{C}$ (No condensation)Storage temperature range : -40~+85 $^\circ\text{C}$ (No condensation)

IP Level : IP67 (Except shaft side)

Life : 7million cycles
 (The life cycles shall be defined by reaching one of any following specifications on the conditions of 60~400rpm constant cycles under room temperature, room humidity and no mechanical load.)

- Independent linearity by 1.5 times of standard value.
- Torque by 1.5 times of standard value.

Vibration : 200m/s², 5~500Hz, 10min (Half cycle), 3axis 2hours (Room temp.)Shock : 500m/s², 11ms, 3axis 3times (Room temp.)EMS : 100V/m, 1MHz~1GHz (ISO11452-2,-3)
Output error: $\pm 1\% \text{FS}$

EMI : CISPR25 Class 3

ESD (Case to each terminal) : Contact discharge, $\pm 15\text{kV}$ (IEC61000-4-2)ESD (Between each terminal) : Contact discharge, $\pm 15\text{kV}$ (IEC61000-4-2)Note

1. As this product is using "CMOS IC", handling of harness must be done under the ESD protection.
2. This product may have external magnetic influence of the apparatus which generates a magnetic field.
3. When the shaft is coupled, please do not apply heavy load to it.

REFERENCE DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP-1HX-360R2					
承認 APPROVED	TOLERANCE 一般公差		DATE	MIDORI PRECISIONS CO., LTD. 図番 DRAWING NO.	
検 CHECKED	≤ 10	± 0.25	SCALE		
作成 DRAWN	10 < ≤ 100	± 0.5	DRAWING PRACTICE	A-C1H-B19	REV. 0
	100 < ≤ 1000	± 1.0			
	ANGLE	$\pm 1.5'$			

A3

We are here for you. Addresses and Contacts.

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