

This product compliance with RoHS.

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Fig.1

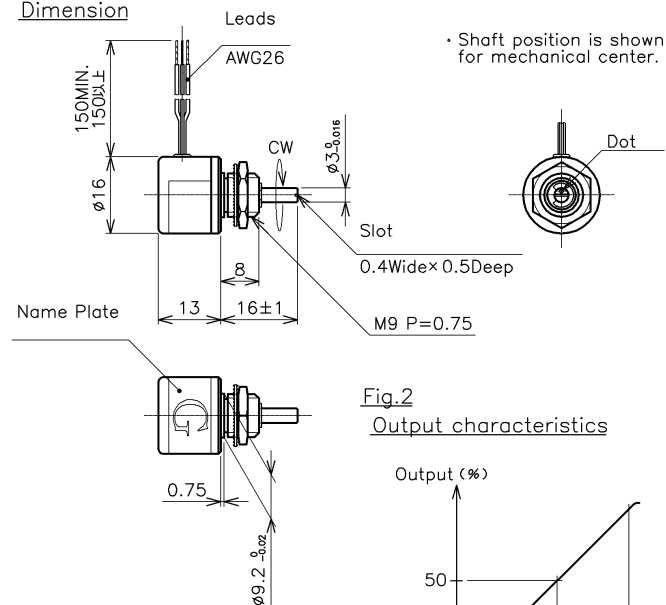
Dimension

Fig.4

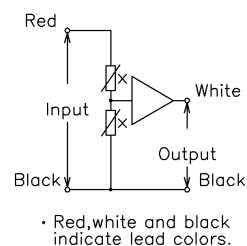
Schematic

Fig.2

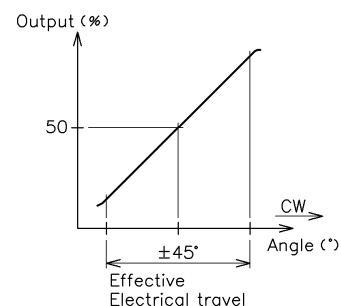
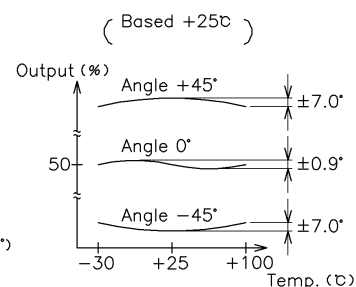
Output characteristics

Fig.3

Temp. characteristicsNote

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.

Specifications

Output characteristics	: See Fig.2
Electrical travel	: $\pm 45^\circ$
Output sensitivity	: $0.35 \sim 0.65\% \text{ Vin}/^\circ$
Independent linearity	: $\pm 1.5\% \text{ FS}$ ($\pm 1.35^\circ$) ; ($\text{FS}=90^\circ$)
Input voltage	: DC 3~5.5V
Load resistance	: 100k Ω MIN.
Supply current	: 0.6mA MAX.
Insulation resistance	: 100M Ω MIN. DC500V
Dielectric strength	: AC500V 1minute
Frequency response	: 100kHz MIN. (-3dB)
Total mechanical travel	: 360° Endless
Torque	: 0.1mN·m MAX.
Mass	: Approx.10g
Radial load tolerance	: 5N
Thrust load tolerance	: 1N
Operating temperature	: $-30 \sim +100^\circ\text{C}$
Storage temperature	: $-40 \sim +100^\circ\text{C}$
Temp. characteristics	: See Fig.3
Vibration	: 200m/s ² 5~500Hz X,Y,Z Axis 2hours
Shock	: 1000m/s ² 11ms X,Y,Z Axis 3times.
EMS	: 25V/m, 1MHz~1GHz (ISO11452-2,-3) Output error: $\pm 1\% \text{ FS}$
ESD (Case to each terminal)	: Contact discharge, $\pm 4\text{kV}$ (IEC61000-4-2)
ESD (Between each terminal)	: Contact discharge, $\pm 8\text{kV}$ (IEC61000-4-2)
Dimension	: See Fig.1
Schematic	: See Fig.4

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
A3					

SPECIFICATION DRAWING				CUSTOMER/SPEC. NO.	
MODEL: CP-16U					
APPROVED	TOLERANCE	DATE	2015.10.20	MIDORI PRECISIONS CO., LTD.	
CHECKED	≤ 10 ± 0.25	SCALE	1:1	DRAWING NO.	REV.
DRAWN	$10 < \leq 100$ ± 0.5	DRAWING PRACTICE		A-UCG-B01	0

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