

This product compliance with RoHS.

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Fig.1

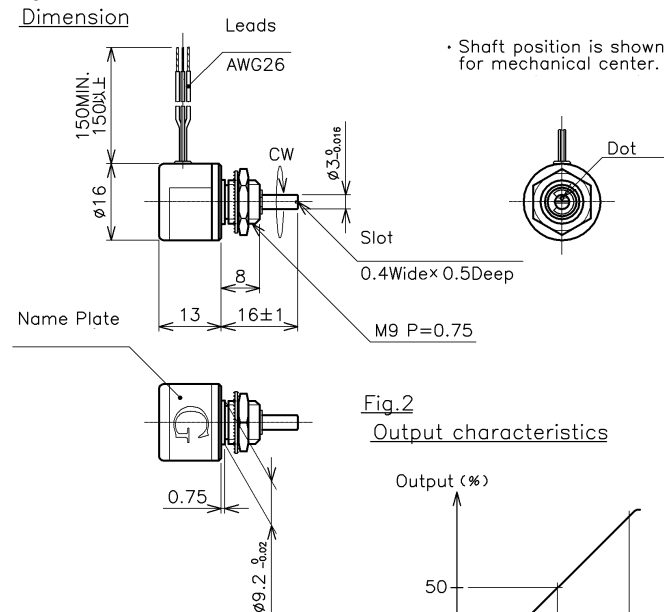


Fig.2

Output characteristics

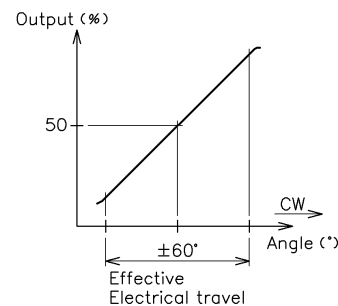


Fig.4

Schematic

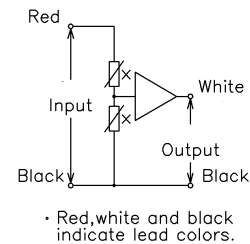
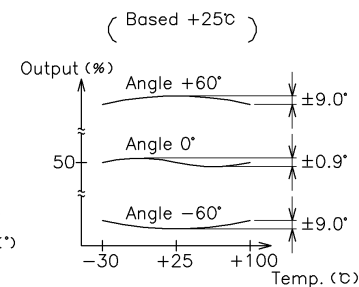


Fig.3

Temp. characteristics



Note

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

Specifications

Output characteristics	: See Fig.2
Electrical travel	: ±60°
Output sensitivity	: 0.35~0.65%Vin/°
Independent linearity	: ±2.5%FS (=±3°) ; (FS=120°)
Input voltage	: DC 3~5.5V
Load resistance	: 100kΩ MIN.
Supply current	: 0.6mA MAX.
Insulation resistance	: 100MΩ MIN. DC500V
Dielectric strength	: AC500V 1minutes
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~+100°C
Storage temperature	: -40~+100°C
Temp. characteristics	: See Fig.3
Vibration	: 200m/s² 5~500Hz (20分) X,Y,Z Axis 2hours
Shock	: 1000m/s² 11ms X,Y,Z Axis 3times.
EMS	: 25V/m. 1MHz~1GHz (ISO11452-2,-3) Output error: ±1%FS
ESD (Case to each terminal)	: Contact discharge, ±4kV (IEC61000-4-2)
ESD (Between each terminal)	: Contact discharge, ±8kV (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-1					
APPROVED	TOLERANCE	DATE	2016.2.10	MIDORI PRECISIONS CO., LTD.	
CHECKED	±10 ±0.25	SCALE	1:1	DRAWING NO.	REV.
DRAWN	10< ±100 ±0.5	DRAWING PRACTICE		A-UCG-B02	0

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