



α HSM22M

General Specifications

Current Consumption	Single output: Max. 16mA Dual output & dual independent output: Max. 32mA
Independent Linearity Tolerance	±0.5%FS
Mechanical Rotating Angle	360°(Endless)
Effective Electrical Angle	3600°±7°
Applied Voltage	5V±10%D.C.
Load resistance	10k Ω min
Effective Output	5%±3%Ω95%±3% Vin
Output Temperature Characteristics	Within ±0.3%Vout/FS
Operating Temperature Range	-40 / +85
Storage Temperature Range	-40 / +85
Mass	Approx. 35g
Rotating Torque	Within 5mN·m(within 50gf·cm)
Backlash	Within 10°
Dielectric Strength	1 minute at 500 V.A.C.
Insulation Resistance	Over 1,000 M at 500 V.D.C.
Index Protection	IP50 (IP65 for the incorporated PCB part only)

Environmental Specifications

Thermal Shock	5 cycles 40 85
Exposure at Low Temperature	24 hours at 40
Exposure at High Temperature	1,000 hours at 85
Vibration	10 to 2,000Hz 196m/s 2 12 hours
Shock	490m/s ² within 18 times
Rotational Life Expectancy	Approx. 20,000,000
EMS Tolerance	100V/m(80MHz 1GHz 1kHz Sinwave80% Amplitude Modulation)
ESD Tolerance	±8kV contact discharge /±15kV aerial discharge (Based on IEC 61000-4-2)

Note: Rotational Life Expectancy may differ from the specifications depending on status of use.

Special Specifications Available

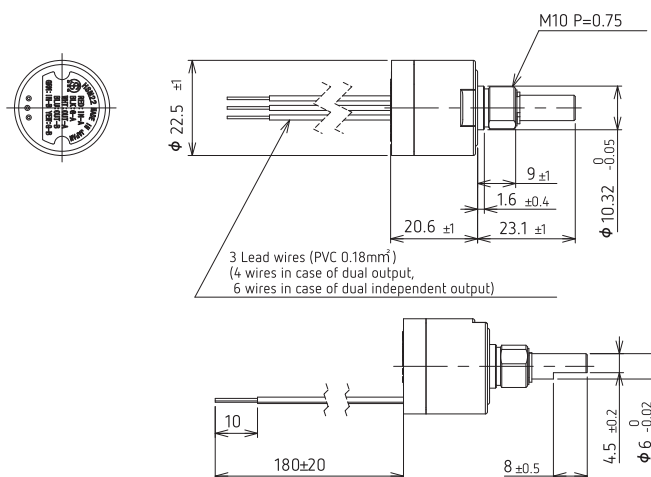
- Special effective electrical angle (1080,1°800,2°880-° arbitrary angles)
- Special machining on the shaft
- Special output (Cross, parallel, Dual independent output)
- Special applied voltage (12V,24V)
- PWM output
- Low current consumption in slow mode

(In case of the potentiometer with special specifications, the general specifications and environmental specifications may change. Please consult us in advance.)



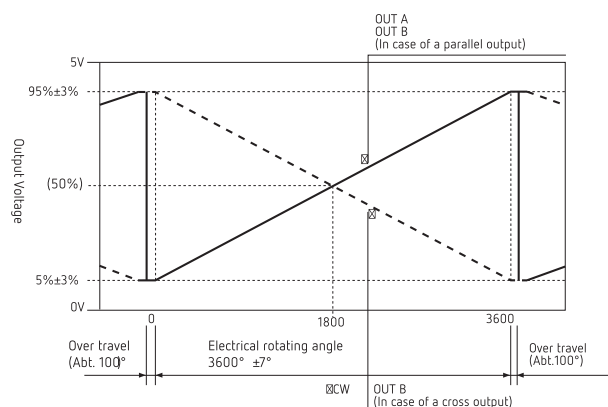
RoHS Compliant

Standard Dimensions



Note: 1. 1 pc. each of inner teeth washer and hex nut is attached.
2. Please duly note that inner construction may burn out when applying the voltage to the wrong terminals except input terminal.

Output Characteristics



Terminal Connection Diagram

