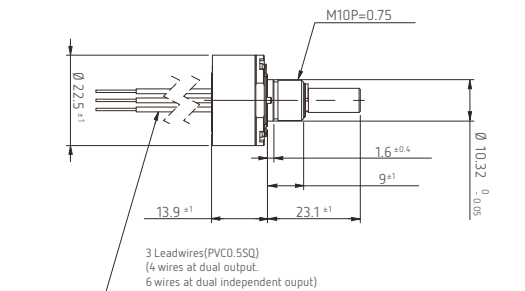




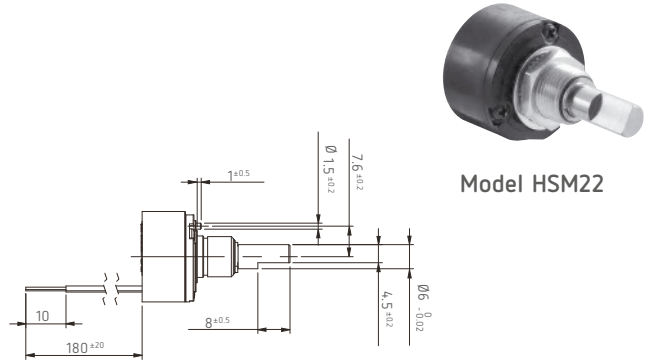
α HSM22

Standard dimensions

RoHS Compliant



Note: 1) The drawings show the position of shaft flattened at the ratio value of 50%.
2) 1 pc. each of inner teeth washer and hex nut is attached.
3) Please duly note that inner construction may burn out when applying the voltage to the wrong terminals except input terminal.



Model HSM22

General Specifications

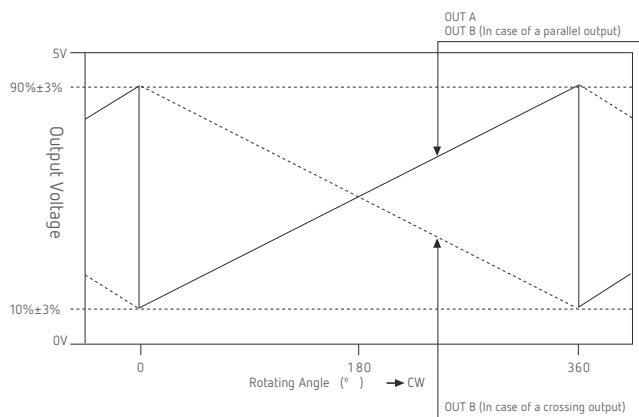
Current Consumption:	Single output: Approx. 16mA Dual output: Approx. 32mA
Independent Linearity Tolerance:	$\pm 0.5\%FS (FS=360^\circ)$
Mechanical Rotating Angle:	360° (Endless)
Effective Electrical Angle:	360° (Endless)
Applied Voltage:	$5V \pm 10\% D.C.$
Load resistance:	$10k\Omega$ min
Effective Output:	$10\% \pm 3\% \sim 90\% \pm 3\% V_{in}$
Output Temperature Characteristics:	Within $\pm 0.3\% V_{out} / FS$
Operating Temperature Range:	$-40^\circ C \sim +105^\circ C$
Storage Temperature Range:	$-40^\circ C \sim +105^\circ C$
Mass:	Approx. 20g
Rotating Torque:	Within $5mN \cdot m$ (within $50gf \cdot cm$)

Environmental Specifications

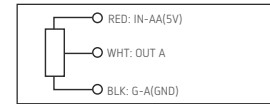
Thermal Shock:	5 cycles $-40^\circ C \sim +105^\circ C$
Exposure at Low Temperature:	24 hours at $-40^\circ C$
Exposure at High Temperature:	1,000 hours at $+105^\circ C$
Vibration:	10 to 2,000Hz $196m/s^2$ 12 hours
Shock:	$980m/s^2$ 6ms (18 times)
Rotational Life Expectancy:	Approx. 50,000,000
EMS Tolerance:	$100V/m$ (80MHz~1GHz 1KHz Sinwave 80% Amplitude Modulation)
ESD Tolerance:	$\pm 8kV$ contact discharge $\pm 15kV$ aerial discharge

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

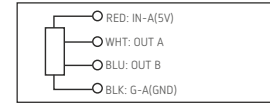
Output characteristics



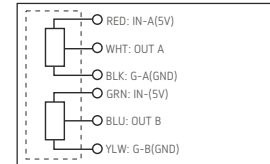
Single output



Dual output



Dual Independent output



Special Specifications Available

(In case of the potentiometer with special specifications, the general specifications and environmental specifications may change. Please consult us in advance). Special effective electrical angle(90°;180°;270°- 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.