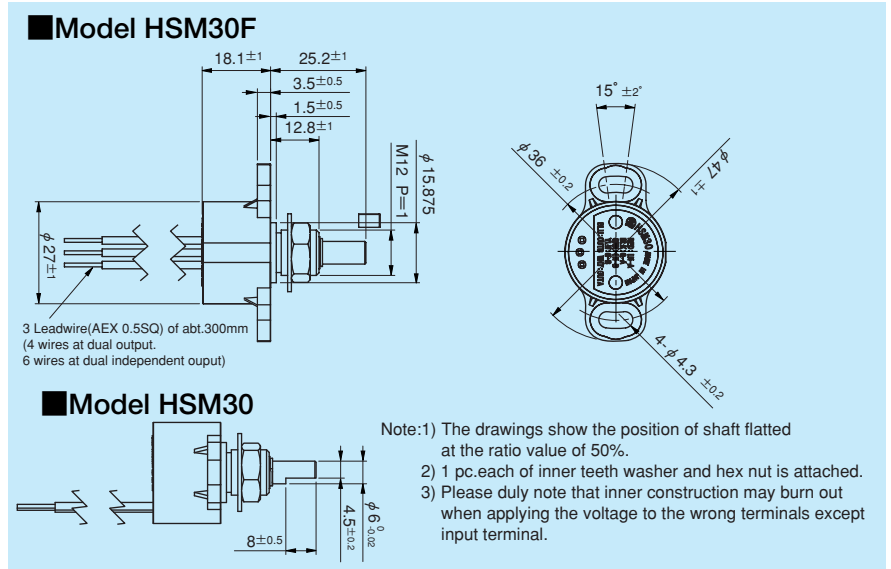




● Standard Dimensions



Note: The difference between HSM30F and HSM30 is with or without flange only. The following performances are the same.

● General Specifications

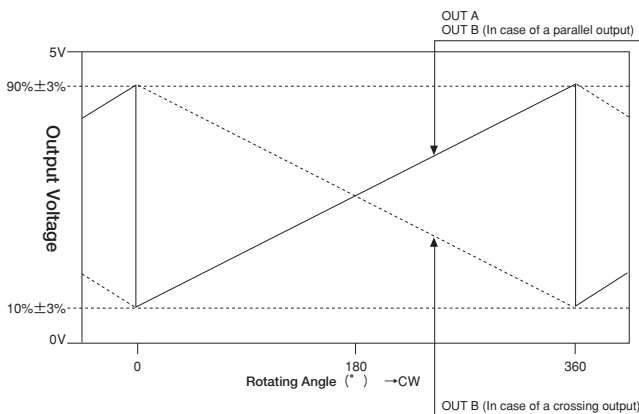
|                                    |  |
|------------------------------------|--|
| Current Consumption                | Single output: Approx. 16mA<br>Dual output: Approx. 32mA |
| Independent Linearity Tolerance    | ±0.5%FS(FS=360°)   |
| Mechanical Rotating Angle          | 360°(Endless)  |
| Effective Electrical Angle         | 360°(Endless)  |
| Applied Voltage                    | 5V±10%D.C.   |
| Load resistance                    | 10kΩmin  |
| Effective Output                   | 10%±3%~90%±3% Vin  |
| Output Temperature Characteristics | Within ±0.3%Vout/FS                                      |
| Operating Temperature Range        | -40°C~+120°C   |
| Storage Temperature Range          | -40°C~+120°C   |
| Mass                               | Approx. 45g(HSM30F)                                      |
| Rotating Torque                    | Within 5mN·m(within 50gf·cm)                             |

● Environmental Specifications

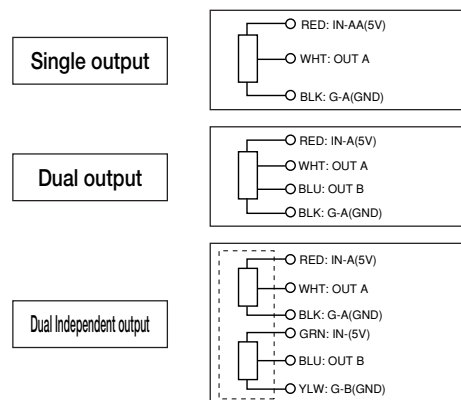
|                                    |   |
|------------------------------------|---|
| Thermal Shock                      | 5 cycles -50°C~+125°C                               |
| Exposure at Low Temperature        | 24 hours at -50°C                                   |
| Exposure at High Temperature       | 1,000 hours at +125°C                               |
| Vibration                          | 10 to 2,000Hz 196m/s <sup>2</sup> 12 hours          |
| Shock                              | 980m/s <sup>2</sup> 6ms(18 times)                   |
| Life Expectancy(shaft revolutions) | Approx. 50,000,000                                  |
| EMS Tolerance                      | 100V/m(80MHz~1GHz 1KHz<br>80% Amplitude Modulation) |
| ESD Tolerance                      | ±8kV contact discharge<br>/±15kV aerial discharge   |

(note) Rotational Life Expectancy may differ from the specifications depending on status of use.

● Output Characteristics



● Terminal Connection Diagram



● Special Specifications Available.

Special effective electrical angle(90°,180°,270°- arbitrary angles), Special machining on the shaft, Special output (Cross, parallel, Dual independent output), Special applied voltage, PWM output.