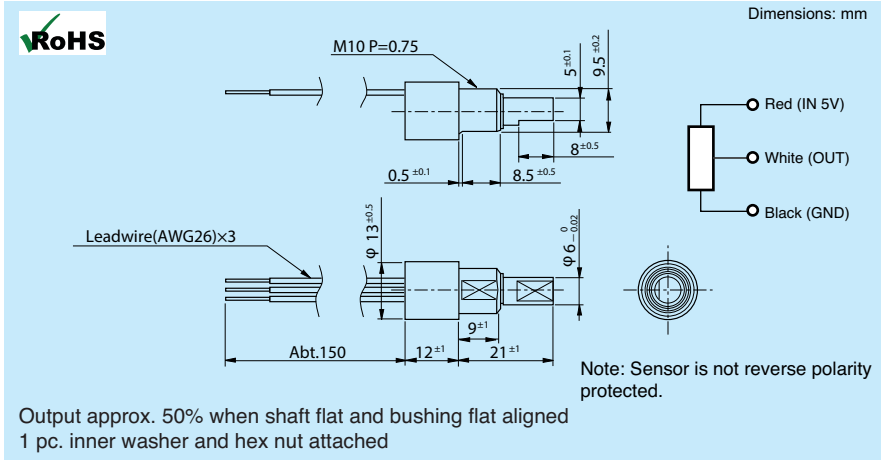


STHE12 Series

Single Turn Contactless Potentiometer (Hall Effect)



• General Specifications

Model NO.	STHE12
Current Consumption	Approx. 7mA
Independent Linearity Tolerance	±1.5%FS (FS=90°)
Mechanical Rotating Angle	360°(Endless)
Effective Electrical Angle	±45° (90°) • (±10, 15, 20, 25, 30, 35, 40 possible, please consult us)
Applied Voltage	5V ±10% D.C.
Load Resistance	10kΩ min.
Output Voltage	0.5V ~ 4.5V
Output Temperature Characteristic	Below ±2.5% Vout • FS
Drift at Center Position	Below ±0.5% Vout • FS
Resolution	Infinite
Operating Temperature Range	-40 °C ~ +105 °C
Mass	Approx. 15g
Starting Torque	Below 2mN•m (20gf•cm)

• Environmental Specifications

Thermal Shock	5 cycles -50 °C ~ +105 °C
Exposure at Low Temperature	24 hours at -50°C
Exposure at High Temperature	1,000 hours at +105 °C
Vibration	10 ~ 2,000Hz 196m/s ²
Shock	980m/s ² (18 times) 12 hours
Life Expectancy (shaft revolutions)	approx. 50,000,000
EMS Durability	50V/m (80MHz~1GHz 1KHz 80% amplitude modulation)
ESD Durability	±4kV contact discharge / ±4kV aerial discharge
Protection Grade	IP40 (IP54 option)

Customers should test and verify device performance in any given application. Shaft modifications are possible, please consult us. Specifications subject to change without notice.