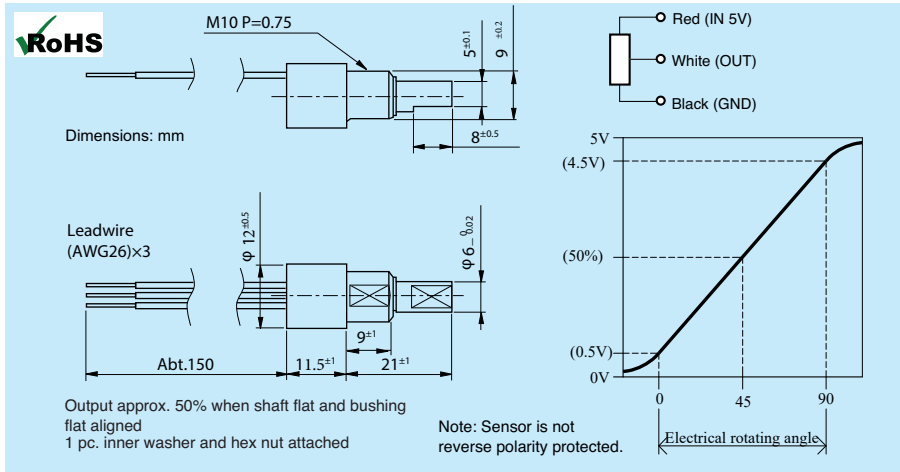


STHE10 Series

Single Turn Contactless Potentiometer (Hall Effect)



• General Specifications

Model NO.	STHE10
Current Consumption	< 13mA
Independent Linearity Tolerance	±0.5%FS (FS=360°)
Mechanical Rotating Angle	360°(Endless)
Effective Electrical Angle	360° (Endless) • (Special electrical angles (90°, 180°, 270° - arbitrary angles)
Applied Voltage	5V ±10% D.C.
Load Resistance	10kΩ min.
Output Voltage	10% Vin ±3% ~ 90% Vin ±3%)
Output Temperature Characteristic	Below ±0.3% Vout • FS
Drift at Center Position	Below ±0.3% 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 -40 °C ~ +105 °C
Exposure at Low Temperature	24 hours at -40°C
Exposure at High Temperature	1,000 hours at +105 °C
Vibration	10 ~ 2,000Hz 196m/s ² 12 hours
Shock	980m/s ² (18 times)
Life Expectancy (shaft revolutions)	approx. 100,000,000 shaft revolutions
EMS Durability	100V/m (80MHz~6GHz ISO11452-1~-3)
ESD Durability	±4kV contact discharge / ±8kV aerial discharge (Based on IEC 61000-4-2)
Protection Grade	IP65