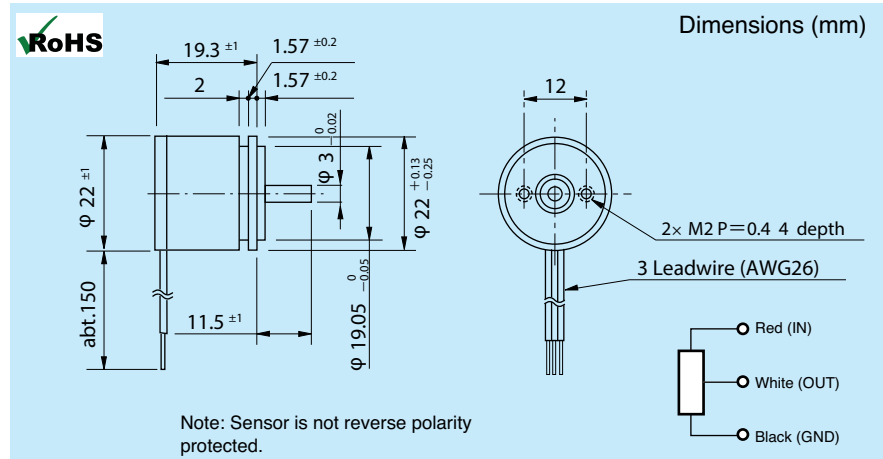


## Single-Turn Inductive (contactless) Potentiometer

## Series STI22FS



### General Specifications

Current Consumption	Approx. 3.5mA
Independent Linearity Tolerance	$\pm 0.5\%FS$ (FS=100°) • ( $\pm 1\%$ if FS = $\pm 60^\circ$ to $\pm 80^\circ$ )
Mechanical Rotating Angle	360°(Endless)
Effective Electrical Angle	Standard: $\pm 50^\circ$ (100°) • Special: $\pm 25^\circ \sim \pm 80^\circ$ possible, please consult us.
Applied Voltage	5 V.D.C. • (3.3 V.D.C to 10 V.D.C. possible, please consult us)
Load Resistance	10k $\Omega$ min.
Output Voltage	10% ~ 90% $V_{in}$ • FS (FS = 100°)
Output Temperature Characteristic	Below $\pm 2.5\%$ $V_{out}$ • FS
Drift at Center Position	Below $\pm 0.5\%$ $V_{out}$ • FS
Resolution	Infinite
Operating Temperature Range	-40 °C ~ +105 °C
Mass	Approx. 15g
Starting Torque mN * m(gf * cm)	Below 0.2 (2)

### 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
Moisture Resistance	40 °C 95%RH 120 hours
Vibration	10 ~ 2,000Hz 196m/s <sup>2</sup>
Shock	980m/s <sup>2</sup> (18 times) 12 hours
Life Expectancy (shaft revolutions)	approx. 200,000,000
Protection Grade	IP40

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