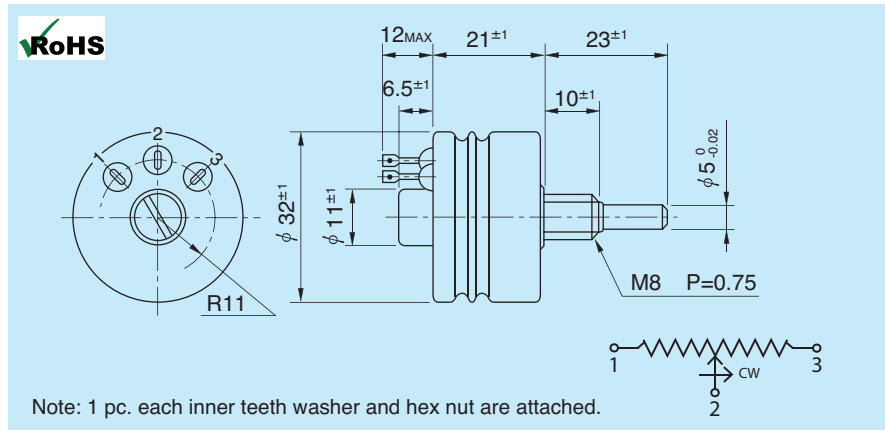


# STWOF30 Series

## Single Turn Potentiometer (Wirewound, Oil Filled)



• **Standard Model Nos.**

- STWOF30 (without stop)
- STWOF30S (with stop)

Suitable for harsh environments; salt, moisture, organic gases etc.

• **General Specifications (Note 1)**

<b>Resistance Values (<math>\Omega</math>):</b> 500, 1K, 2K, 5K, 10K, 20K	<b>Noise:</b> Below 100 ohms E.N.R.
<b>Resistance Tolerance:</b> Standard Class $\pm 10\%$ Precision Class $\pm 5\%$	<b>Electrical Travel:</b> STWOF30 280° $\pm 5^\circ$ STWOF30S 280° $\pm 5^\circ$
<b>Independent Linearity Tolerance:</b> Standard Class $\pm 2.0\%$ Precision Class $\pm 0.5\%$	<b>Mechanical Travel:</b> STWOF30 360° (continuous) STWOF30S 300°
<b>Power Rating:</b> 0.75W	<b>Insulation Resistance:</b> >1000M ohms @ 1000 VDC
<b>Rotational Life:</b> 200,000 shaft revolutions (no load)	<b>Dielectric Strength:</b> 1 minute @ 1000 VAC
<b>Protection Grade:</b> IP65	<b>Starting Torque:</b> <30mN·m (300gf·cm)
<b>Operating Temperature:</b> -30°C ~ +60°C	<b>Temperature Coefficient of Wire:</b> $\pm 20$ p.p.m / °C
	<b>Vibration:</b> 10G / 10 Hz to 2,000 Hz
	<b>Shock:</b> 30G / 11ms
	<b>Mass:</b> Approx. 40g

• **Resolution Chart**

Resist. Value ( $\Omega$ )	500	1k	2k	5k	10k	20k
Resolution (%)	0.25	0.20	0.15	0.11	0.091	0.067
Resist. Wire Used	Ni-Cr System					

• **Special Specifications Available**

Special lower practical resistance values (50 $\Omega$  to 200 $\Omega$ ), Extra taps (Available up to 1 tap), Special electrical travel, Shaft dia. ( $\varnothing 3.175$ mm)•bushing with inch dimensions, Special machining on the shaft, With stopper (Rotating angle becomes 300° and stopper strength is 0.3N·m [3kgf·cm]).

Note 1: Customers should test and verify device performance in their application.