

Industrial
16mm Size
Conductive Plastic
Precision Rotary Sensor

Features

- Robust Construction
- 2 Million Life Cycles
- 2% Precision Linearity
- Water Resistance (IP54, IP67)
- Wide Temperature Range
- Solder Lug, Faston Terminal
- Continuous Rotation Available
- RoHS Compliant



Electrical and Mechanical Specifications

Resistance Range

1 K through 500 K ohms, linear
5 K through 100 K ohms, non-linear

Resistance Tolerance

± 10%, ± 20%

Power Rating

0.5 watts @ 70°C

Dielectrical Strength

750 VDC for 1 minute

Maximum Operating Voltage

500 VDC

Insulation Resistance

1000 Megohms minimum @ 500 VDC

Rotational Angle

Mechanical: 250°, 300°, 360°
Effective: 240°, 280°, 340°

Rotational Torque

20 – 180 gf-cm

Stop Strength

9 kgf-cm minimum

Push-Pull Strength of Shaft

13.6 kg for 10 seconds

Mounting Information

Bushing Mount

Rotational life

2 M cycles

Linearity

± 2%

Temperature

Operating: -40°C~150°C
Storage: -55°C~150°C

Solder Heat Resistance

350°C for 5 seconds

Ingress Protection Rating

IP54, IP67

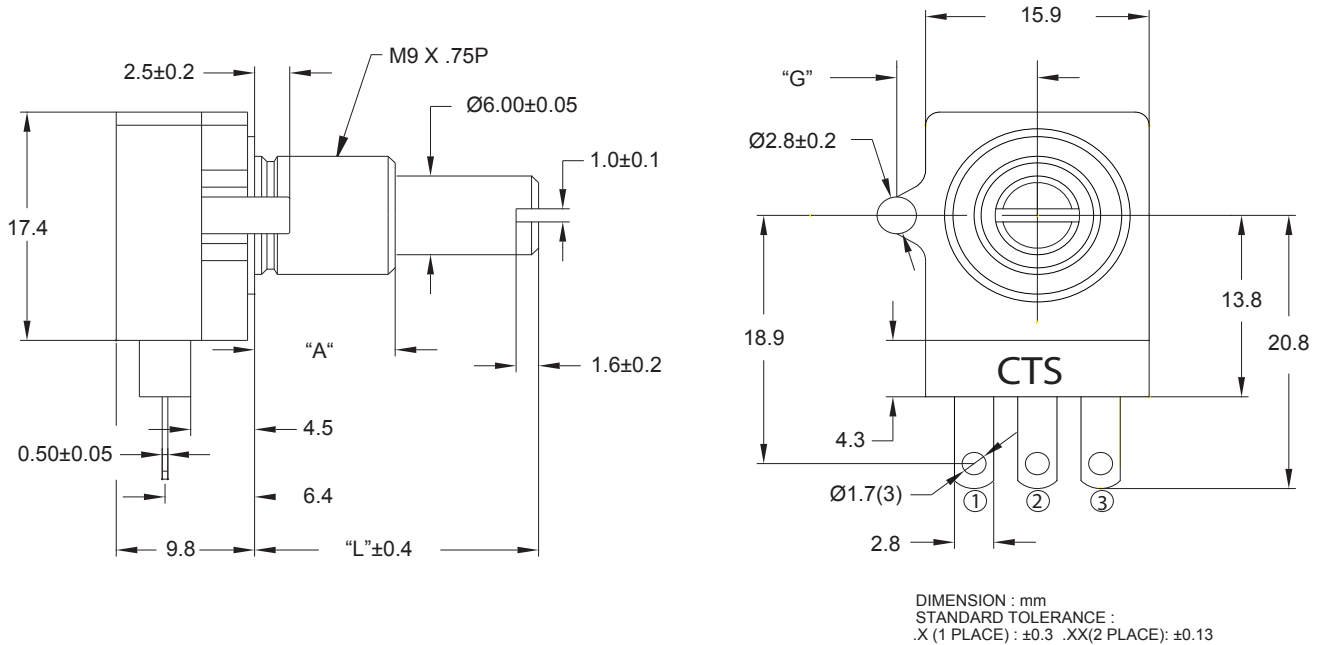
Vibration

15G, 10 to 2000 Hz

Shock

50G

282T Metal Shaft, Bushing Mount, Solder Lug (Faston) Terminal



Ordering Information

282 **T** **2** **A** **R** **103** **A** **2** **5** **B** **1**

TERMINAL STYLE T - Solder Lug (Faston)	SHAFT LENGTH "L" Examples: mm inch A - 10 mm 1 - .625" B - 15 mm 2 - .750" C - 20 mm 3 - .875" D - 25 mm 4 - 1.000" E - 30 mm 5 - 1.125" Note: Incremental length : 5mm or .125"	RESISTANCE CODE EXAMPLES CODE RESISTANCE 102 1K 103 10K 503 50K 104 100K 504 500K	LINEARITY 2 - ± 2%	LOCATING LUG "G" 1 - Left, 10mm 2 - Left, 8mm
BUSHING MOUNT "A" Length Examples: mm inch A - 5.0 mm 2 - .250" B - 7.5 mm 3 - .375" C - 10.0 mm 4 - .500" Notes: Incremental Length : 2.5mm or .125" Bushing Dia. & Thread: M9 X .75P (metric) 3/8" - 32 UNEF (imperial)	METAL SHAFT TRIM Shaft Diameter 6mm or .236" R - Round F - Flatted .375" X .156" K - Knurled 24 Teeth S - SD Slot .039"W X .063" D Shaft Diameter 6.35mm or .250" O - Round L - Flatted .440" X .217" N - Knurled 24 Teeth D - SD Slot .039" W X .063" D	RESIST TOL A - ± 10% B - ± 20%	IP Rating 5 - IP54 6 - IP67	ROTATIONAL ANGLE Mechanical Effective A - 250° 240° B - 300° 280° C - 360° 340°

Standard Part - 282T33L502A25A2, 282T33L502A25C2, 282TCBS103A25B1
282T33L502A26A2, 282T33L502A26C2, 282TCBS103A26B1
Please consult factory for custom or not listed features.