

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

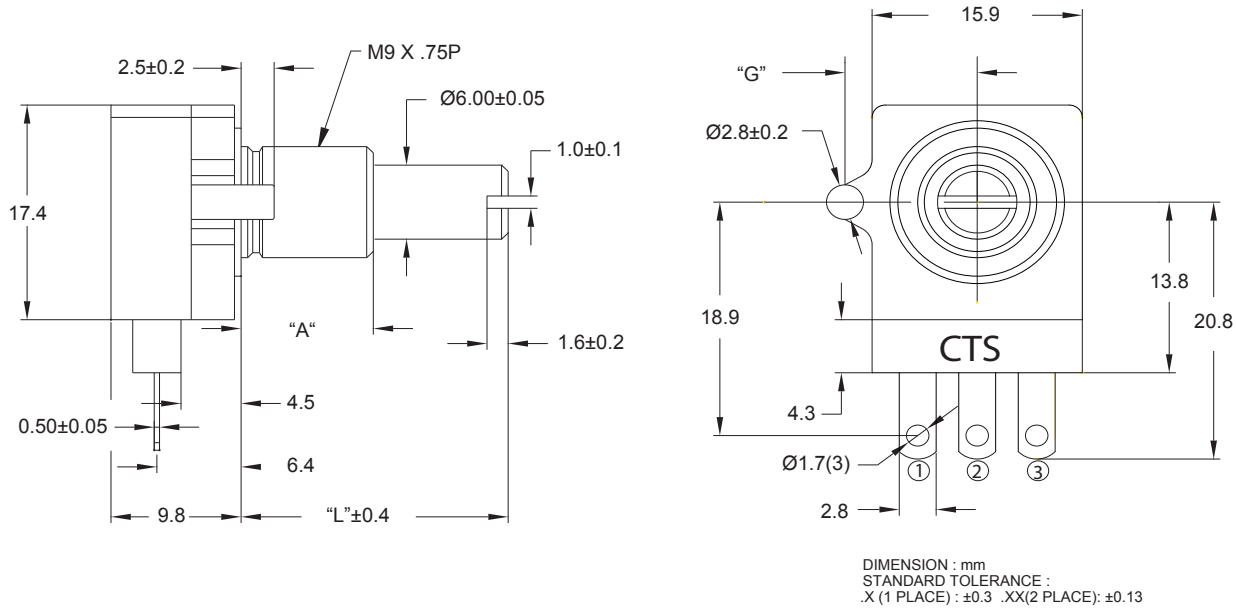
Vibration

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.