

Multi-Turn Precision Potentiometer

Model 8136



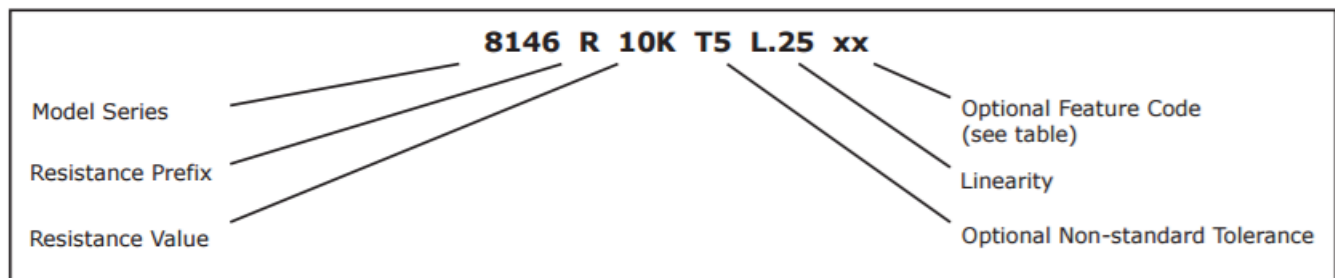
Mechanical

Total Mechanical Travel		3600° +15° -0°
Number of Gangs		2 maximum
Weight (single gang)		0.75 oz. nominal
Backlash		1° maximum
	8141, 8144, 8146, 8148	8143
Static Stop Strength	maximum	48 oz.-in. 36 oz.-in.
Panel Nut Tightening Torque	maximum	25 lb.-in. n/a
Shaft End Play	maximum	0.010" 0.005"
Shaft Runout	maximum T.I.R.	0.003" 0.002"
Pilot Diameter Runout	maximum T.I.R.	0.004" 0.002"
Lateral Runout	maximum T.I.R.	0.005" 0.004"
Shaft Radial Play	maximum	0.003" 0.002"
Start/Run Torque (per gang, ES option adds 0.5 oz.-in.)	maximum	0.8 oz.-in. 0.6 oz.-in.

¹ Specifications subject to change without notice.
² Linearity is measured between 1% and 99% of input voltage.
³ Measured with 10 VDC CW to CCW and slider at 50% of electrical travel.
 * Model available in 3 & 5 turn versions.



Ordering Information



FEATURE CODES

Center Tap	CT
Linearity Tape	LT
Flatted Shaft	FS
Slotted Shaft (standard on single gang 8146 without RS feature)	SS
Rear Shaft Extension (8143, 8146 single cup only)	RS
Shaft Lock (8146 only)	SL
High Torque 2-6 oz.-in. (8146 only)	HT
Additional Gang	2G
Gold Plated Solder Lug Terminals (see optional terminal configuration)	FT
Seal (IP66) 8144, 8146, or 8148 only	ES

When multiple Feature codes are used the P/N shall be in the same sequence as listed in this table (top to bottom).

General Note
 TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

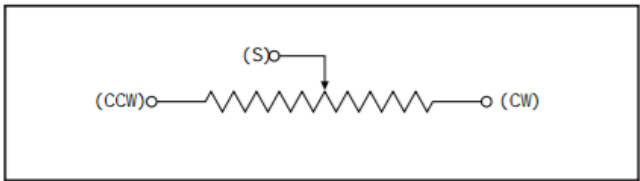
TT Electronics | BI Technologies
 413 Rood RD, Suite 7
 Calexico, CA 92231
 Ph: +1 714 447 2345
www.ttelectronics.com/bi-technologies

Multi-Turn Precision Potentiometer

Model 8136



CIRCUIT DIAGRAM



STANDARD RESISTANCE VALUES

1K	2K	5K	10K	20K	50K	100K
----	----	----	-----	-----	-----	------

MATCHING TURNS COUNTING DIALS

8141: RBJ, 2601, 2641
8146: 2606, 2607, 2626, 2627, 2646, 2126, 2606S, 2607S, 2646S, 2647S, RB

OUTLINE DRAWINGS

Models 8141 & 8146
Bushing Mount with Sleeve Bearing

Dim.	8141	8146
A	$\frac{.688 \pm .031}{17.475 \pm 0.787}$	$\frac{.812 \pm .031}{20.625 \pm 0.787}$
B	$\frac{.1248 \pm .0000}{3.1699 \pm 0.0076}$ Dia.	$\frac{.2500 \pm .0000}{6.3500 \pm 0.0127}$ Dia.
C	$\frac{.281 \pm .000}{7.137 \pm 0.051}$ Dia.	$\frac{.406 \pm .000}{10.312 \pm 0.051}$ Dia.
D	1/4-32 UNEF Thread	3/8-32 UNEF Thread

Slot: $.032 \pm .005 / 0.813 \pm 0.127$ Wide X $.032 \pm .010 - .000 / 0.813 \pm 0.254 - 0.000$ Deep (Not on Rear Shaft Models)

Chamfer $.016 / 0.41$ Max. x 45°

75° Max. 6.25 R Max. 15.9

$.875 \pm .016$ Dia. 22.2 ± 0.41

General Note
 TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies
 413 Rood RD, Suite 7
 Calexico, CA 92231
 Ph: +1 714 447 2345
www.ttelectronics.com/bi-technologies

