



FEATURES

- Carbon resistive element.
- IP54 protection according to IEC 60529.
- Polyester substrate.
- SMD version available (see PS-6 datasheet).
- Also upon request:
 - Wiper positioned at 50% or fully clockwise
 - Supplied in magazines for automatic insertion
 - Long life model (10K cycles)
 - Housing available in self extinguishable plastic (UL94V0)
 - Mechanical detents

MECHANICAL SPECIFICATIONS

- Mechanical Rotation angle: $235^\circ \pm 5^\circ$
- Electrical Rotation angle: $200^\circ \pm 20^\circ$
- Torque: 0.2 to 2 Ncm.
(0.3 to 2.7 in-oz)
- Stop torque: > 4 Ncm. (> 5.6 in-oz)
- Life*: Up to 10K cycles

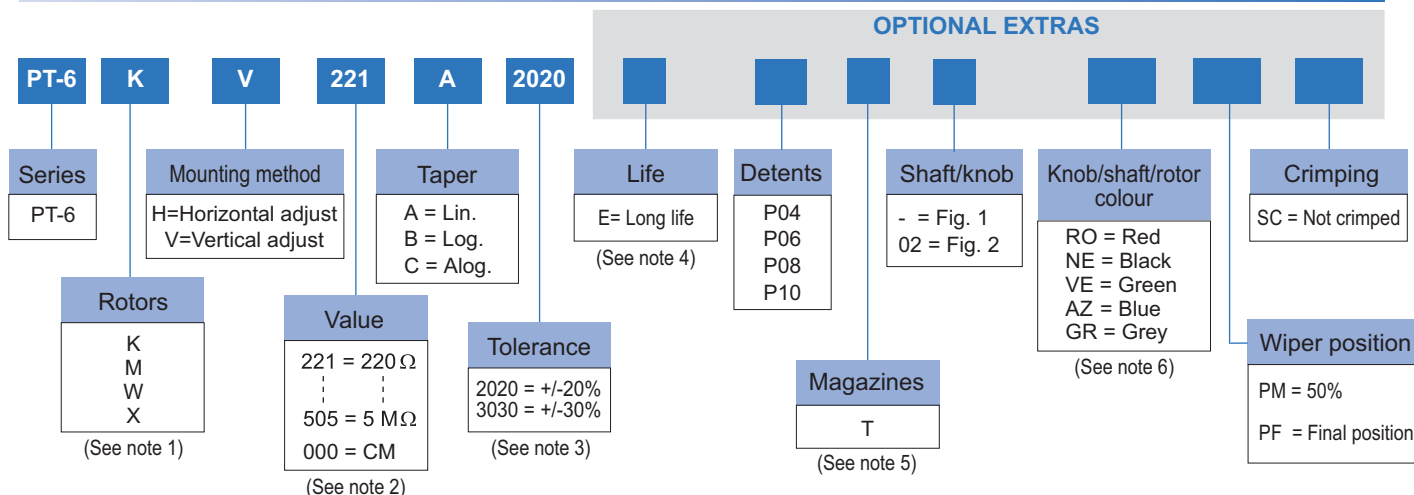
ELECTRICAL SPECIFICATIONS

- Range of values*
 $220\Omega \leq R_n \leq 5M$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
- Tolerance*: $220\Omega \leq R_n \leq 1M\Omega$ $\pm 20\%$
 $1M\Omega < R_n \leq 5M\Omega$ $\pm 30\%$
- Max. Voltage: 100 VDC (lin), 50 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve)
0.1 W (lin) 0.05 W (no lin)
- Taper*: Lin; Log; Alog (Log & Alog. only $R_n \geq 1K$)
- Residual resistance*: $\leq 0.5\% R_n$ (5Ω min)
- Equivalent Noise Resistance: $\leq 3\% R_n$ (3Ω min)
- Operating Temperature**: -25°C +70°C (-13°F +158°F)

* Others upon request.

** Up to 85°C depending on application

HOW TO ORDER



NOTES:

(1) Adjust. type: «X» is only available with horizontal adjusting method.

(2) Value: – Code: $\frac{22}{1} = 220\Omega$
Number of zeros
First two digits.
– 000 = CM = Switch version (contact us)

(3) Tolerance (non standard): Upon request..... Code eg.: $\frac{+7}{-5} = \frac{07}{05}$
Negative tolerance
Positive tolerance

(4) Life: • Standard = 200 cycles • Long = 10K cycles (non-detented models)

(5) Only for “V” mounting method. “W” rotor with shaft Fig. 2 is not available in magazines.

(6) Potentiometer without knob or shaft, only the rotor. Potentiometer with knob or shaft, only the knob/shaft.
Default colour for knob/shaft is cream. Shaft only available in cream or black colour.

NOTE: The information contained here should be used for reference purposes only.

HOW TO ORDER CUSTOM DRAWING

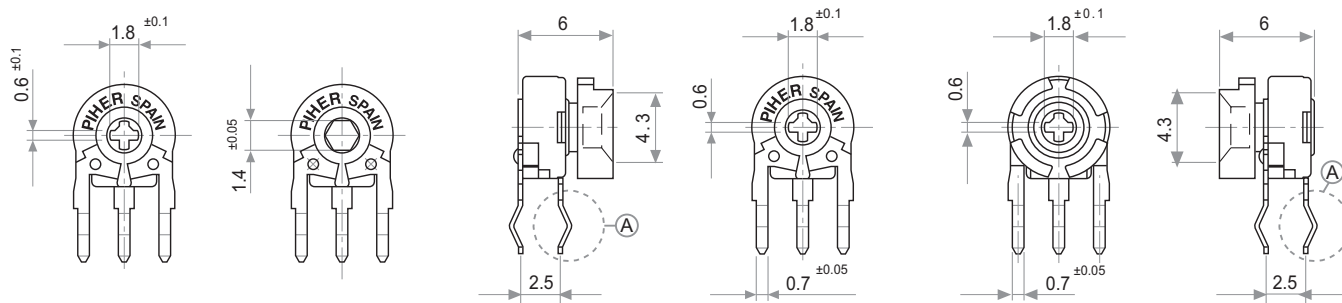
PT-6 KV + DRAWING NUMBER (Max. 16 characters)

This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

STANDARD OPTIONS

Packing	Bulk
Rotor colour	White
Wiper position	Initial
Crimping	Yes
Knob/Shaft colour	Cream
Mechanical life	200 cycles

ROTORS



K = Cross slot thru hole

M = Hexagonal thru hole

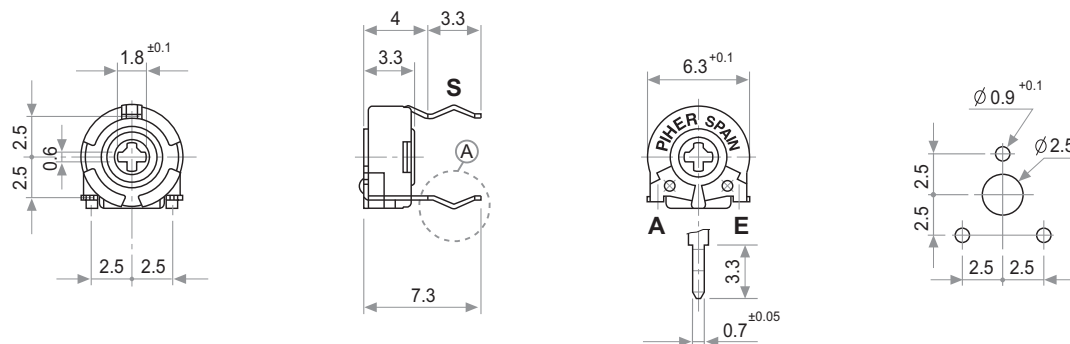
X = Adjustable from collector side

W = Adjustable from terminal side

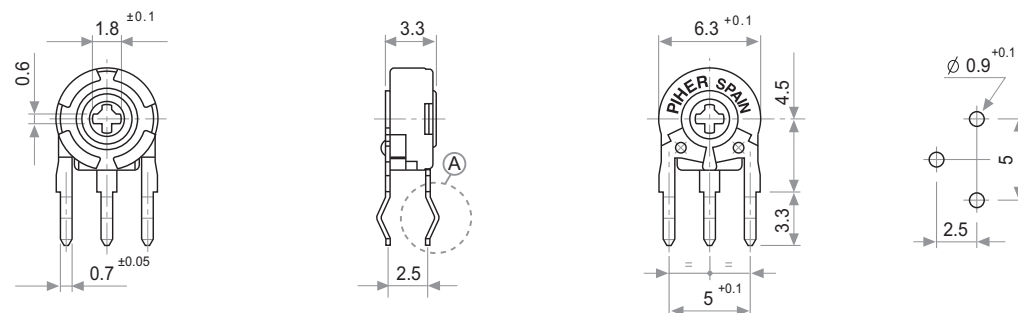
mounted knob / shaft

MOUNTING METHODS. VARIATIONS

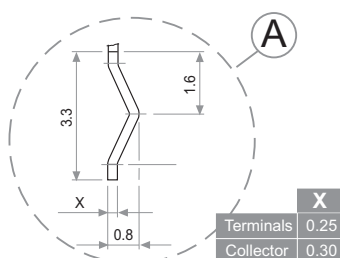
V = Horizontal mount / Vertical adjust



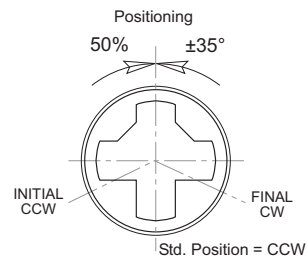
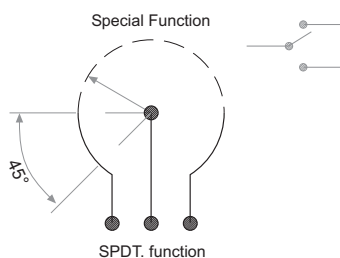
h = Vertical mount / Horizontal adjust



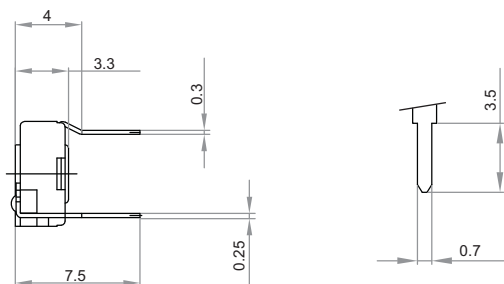
DETAIL A



OPTIONS



NOT-CRIMPED TERMINALS DIMENSIONS



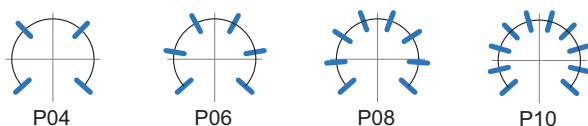
SMD VERSION

SMD / SMT version available:

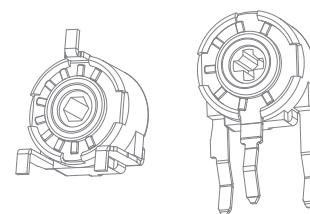
See N-6 and PS-6 product datasheets at: www.piher.net



STANDARD DETENT CONFIGURATIONS



— Relative detent positions along the total mechanical travel.



Unless otherwise specified the detents are evenly spaced (using the end points as reference).

For more than 10 detents versions please contact PIHER.

Mechanical and/or electrical features may be affected by detents.

Other detent configurations upon request

PACKAGING

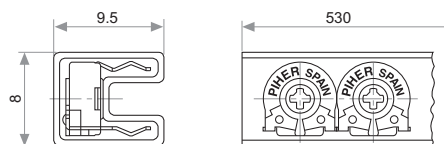
BOXES

Model	Units
All	1.000

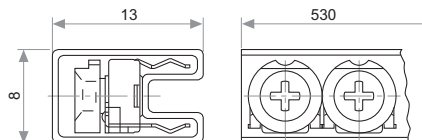
AUTOMATIC INSERTION

Magazines	Units per magazine
PT-6 V & PT-6 WV	80 Pieces

Magazines for PT-6 V with or without crimp.



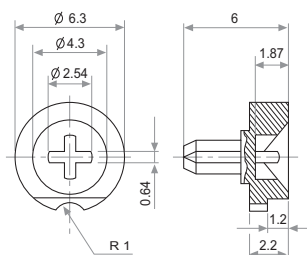
Magazines for PT-6 WV with or without crimp.



SHAFT / KNOB

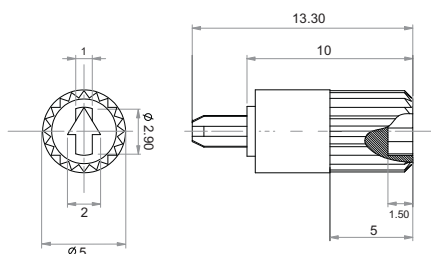
If you wish to use your own custom plastic shaft/knob/actuator please contact Piher for advice about compatible materials.

Ref.: 5155 / Fig. 1



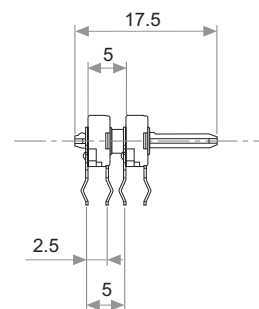
Shaft not suitable for magazine packaging

Ref.: 6132 / Fig. 2



PT-6 DUAL GANG VERSION

For PT-6 dual gang version contact your nearest PIHER supplier



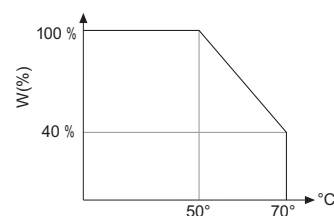
TESTS

TYPICAL VARIATIONS

ELECTRICAL LIFE	1.000 h. @ 50°C: 0.1 W	±5 %
MECHANICAL LIFE (CYCLES)	200 @ 10 CPM ...15 CPM	±3 % (Rn < 1 M.Ω)
TEMPERATURE COEFFICIENT	−25°C; +70°C	±300 ppm (Rn < 100 K)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ −25°C	±2.5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	±2 %

NOTE: Out of range values may not comply with these results.

POWER RATING CURVE



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