

FEATURES

- Carbon resistive element
- Dust proof enclosure
- Polyester substrate
- Also upon request:
 - Wiper positioned at 50% or fully clockwise.
 - Supplied in magazines for automatic insertion.
 - Long life model for low cost control potentiometer applications
 - Self extinguishable plastic UL 94V-0
 - Cut track option
 - Special tapers
 - Mechanical detents
 - Low & extra low torque versions
 - Special switch option

MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: $235^\circ \pm 5^\circ$
- Electrical rotation angle: $220^\circ \pm 20^\circ$
- Torque: 0.4 to 2 Ncm.
(0.6 to 2.7 in-oz)
- Stop torque: > 5 Ncm. (>7 in-oz)

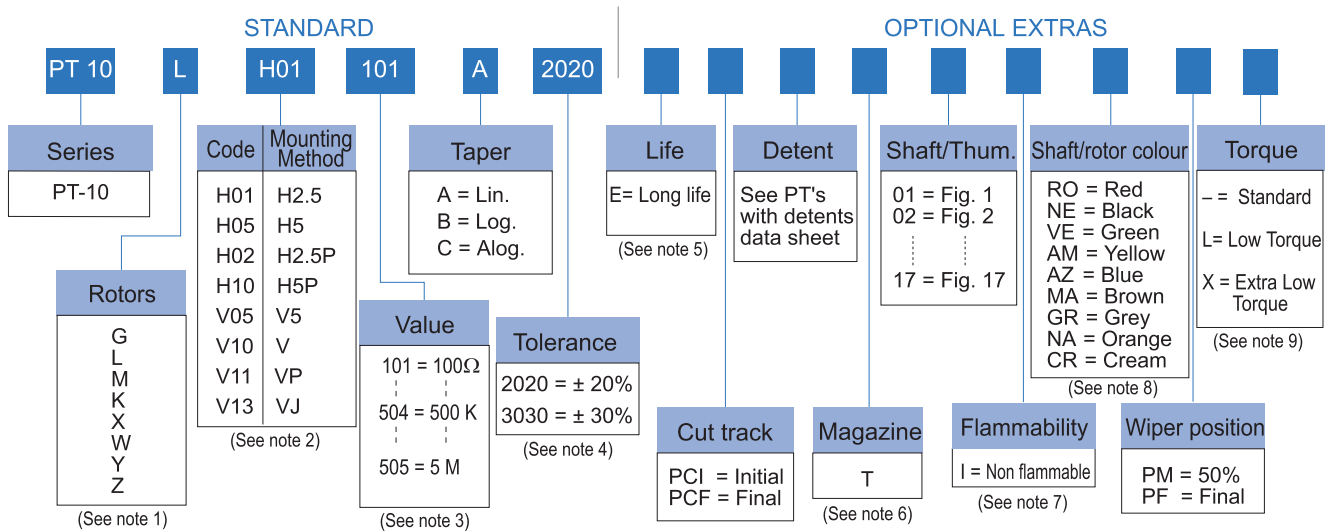
ELECTRICAL SPECIFICATIONS

- Range of values (*)
 $100\Omega \leq R_n \leq 5\text{ M}$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
- Tolerance (*): $100\Omega \leq R_n \leq 1\text{M}\Omega$ $\pm 20\%$
 $1\text{M}\Omega < R_n \leq 5\text{M}\Omega$ $\pm 30\%$
- Max. Voltage: 200 VDC (lin) 100 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve)
0.15 W (lin) 0.07 W (no lin)
- Taper (*) (Log. & Alog. only $R_n > 1\text{K}$) Lin ; Log; Alog.
- Residual resistance: $\leq 5 \cdot 10^{-3} R_n$ (2 Ω min.)
- Equivalent Noise Resistance: $\leq 3\% R_n$ (3 Ω 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) "Z" adjustment only available on "H" versions
- (2) Terminals styles: "P" & "J" are crimped terminals
- (3) Value Example: Code: 10 1 100 Ω
 ↳ Number of zeros
 ↳ First two digits of the value.
- (4) Non standard tolerance, upon request. Example: +7% Code: 07 05
 ↳ negative tolerance
 ↳ positive tolerance
- (5) Life
 - Standard 500 cycles
 - Long life 10000 cycles
- (6) Magazines: not available with the H10, V05 and V13 models, nor with adjustment types X, W, Y, Z.
- (7) Non flammable: housing, rotor and shaft.
- (8) Colour shaft/rotor:
 - Potentiometer without shaft: only rotor
 - Potentiometer with shaft: only shaft
 - Cream colour only available in standard plastic.
- (9) Low Torque: 0.25 to 1 Ncm (per pot.)
 Extra Low Torque: 0.1 to 0.4 Ncm (per pot.)
 No detent option available for low and extra low torque models. No shaft or thumbwheel option for extra low torque models.

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

HOW TO ORDER CUSTOM DRAWING

PT-10 LH 01 + DRAWING NUMBER (Max. 16 characters)

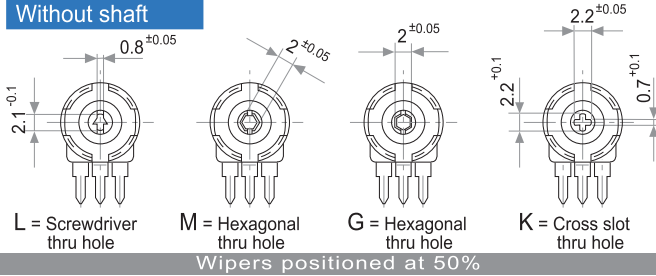
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

STANDARD OPTIONS

Mechanical Life	500 cycles
Cut track	No
Detents	None
Packing	Bulk
Non flammable	No
Rotor colour	White
Shaft colour	Natural
Wiper position	Initial
Torque	Standard

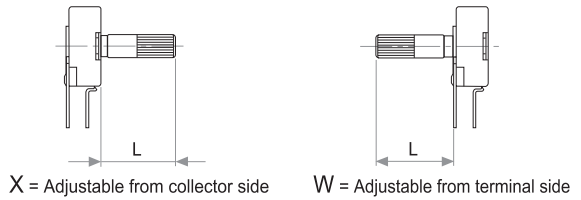
ROTORS

Without shaft

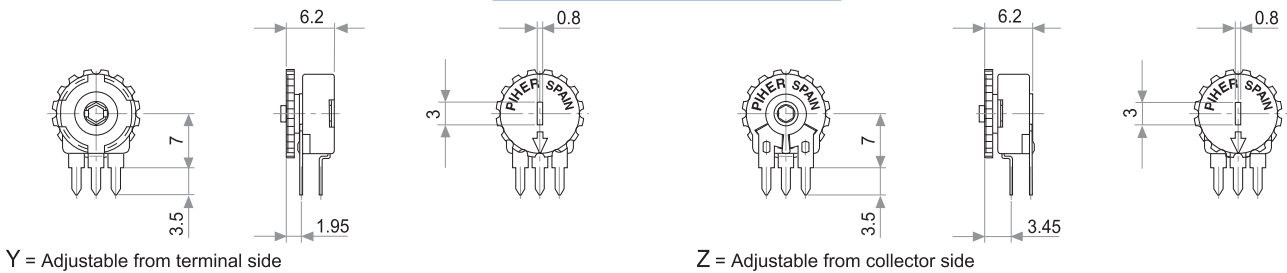


Wipers positioned at 50%

With shaft



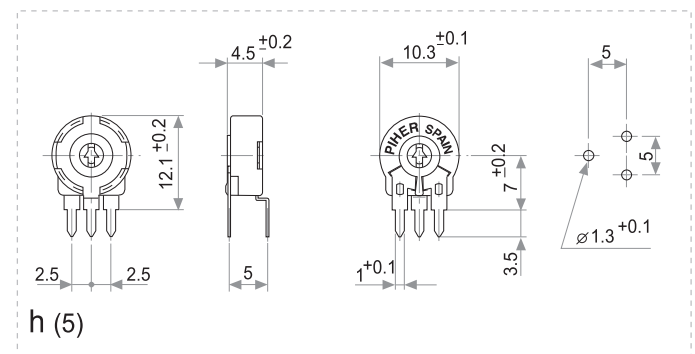
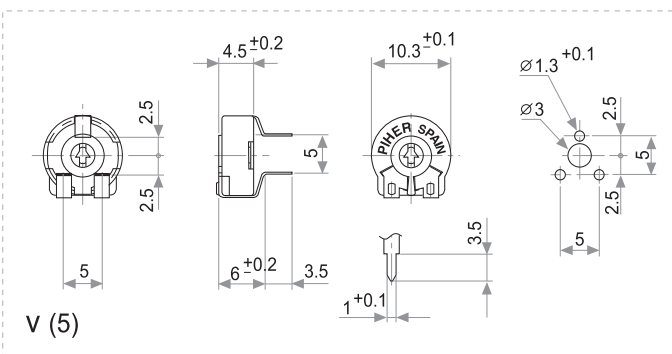
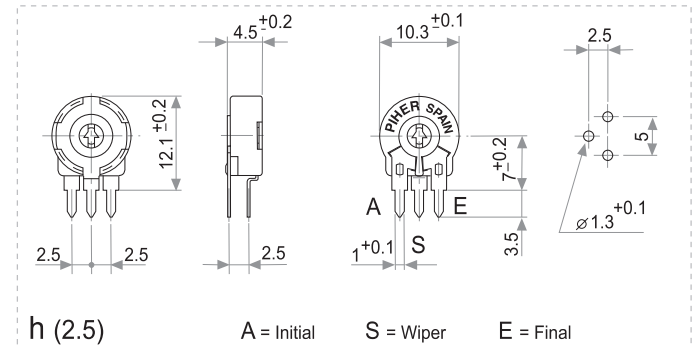
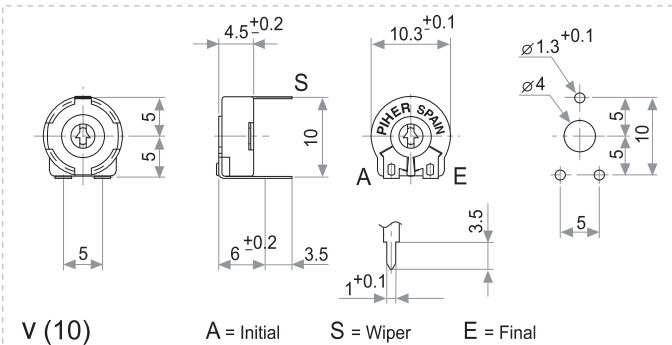
With thumbwheel



MOUNTING METHODS

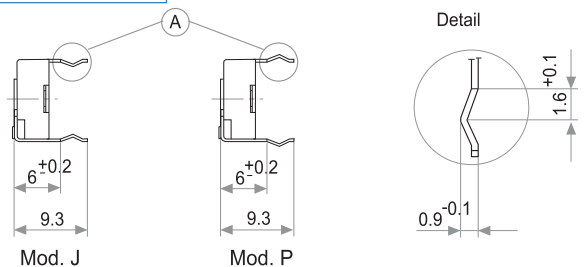
v = horizontal mount – vertical adjust

h = vertical mount – horizontal adjust



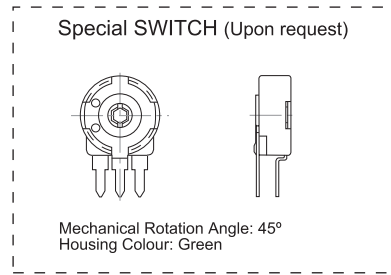
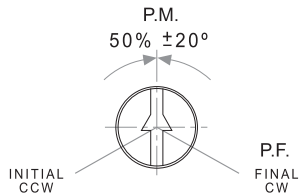
NOTE = Please note relative terminal positions when ordering non linear tapers.

Crimped terminals

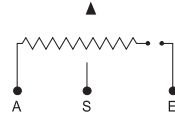
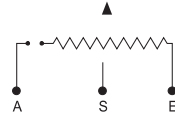
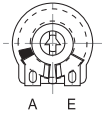


OPTIONS

Positioning (Std. Position = CCW)



CUT TRACK
CCW on-off (A)



CW on-off (E)



A = Initial

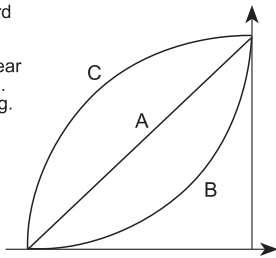
E = Final

S = Wiper

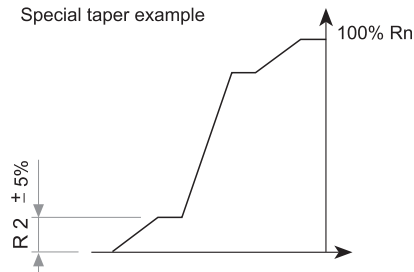
TAPERS

Standard

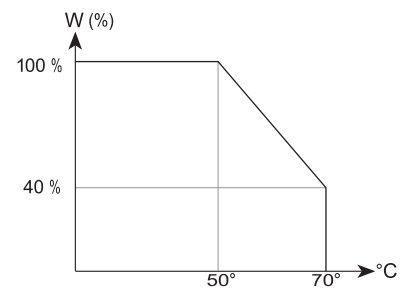
A = Linear
B = Log.
C = Alog.



Special taper example



POWER RATING CURVE



NOTE = Please note relative terminal positions when ordering non linear tapers.

TESTS

TYPICAL VARIATIONS

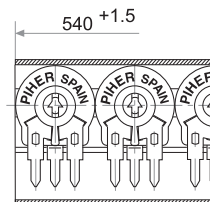
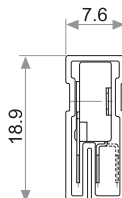
ELECTRICAL LIFE	1.000 h. @ 50°C; 0.15 W	±5 %
MECHANICAL LIFE (CYCLES)	500 @ 10 CPM ... 15 CPM	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	-25°C; +70°C	±300 ppm (Rn < 100 K)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ -25°C	±2.5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	±2 %

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

PACKAGING

BOXES

Model	Units
Without shaft	500 (40 x 85 x 185 mm.)
With thumbwheel	400 (40 x 85 x 185 mm.)
With shaft	200 (40 x 85 x 185 mm.)

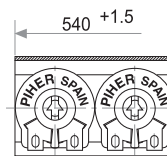
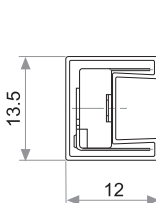


Magazines for PT-10 h 2.5; h 5

Also crimped term. h 2.5 P

AUTOMATIC INSERTION

Magazines	Units per magazine
PT-10H & PT-10V	50 Pieces



Magazines for PT-10 V

Also crimped term. VP

SHAFTS

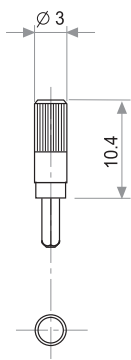


Fig. 1 / Ref. 5016

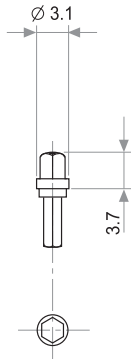


Fig. 2 / Ref. 5053

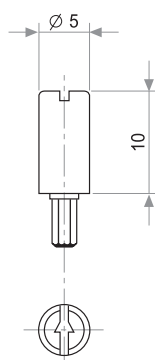


Fig. 3 / Ref. 5012

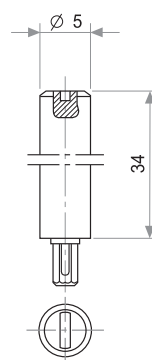


Fig. 4 / Ref. 6053

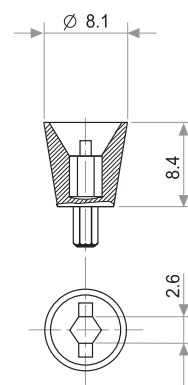


Fig. 6 / Ref. 5035

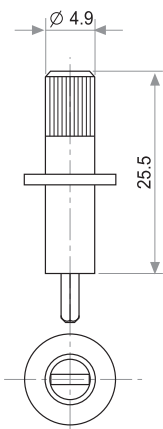


Fig. 7 / Ref. 5115

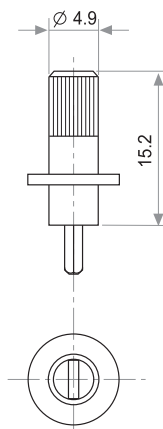


Fig. 8 / Ref. 5116

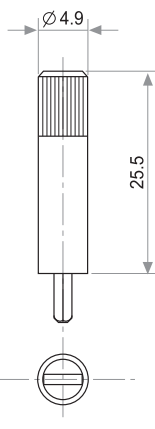


Fig. 9 / Ref. 5119

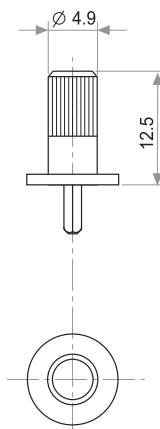


Fig. 10 / Ref. 5120

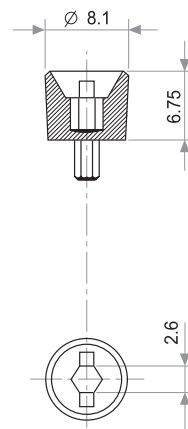


Fig. 11 / Ref. 5027

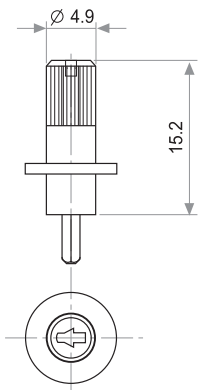


Fig. 12 / Ref. 6052

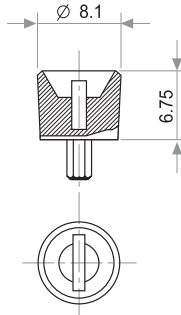


Fig. 13 / Ref. 5121

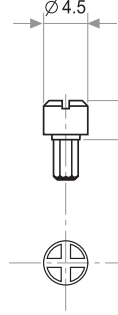
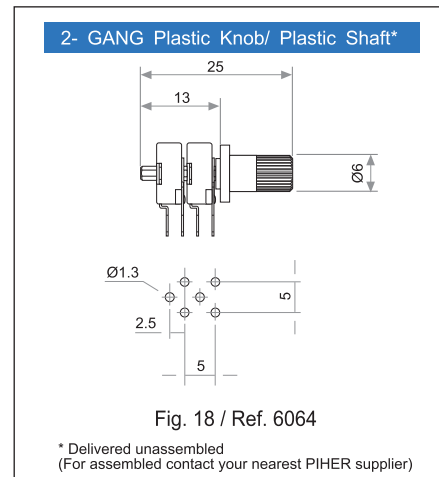


Fig. 14 / Ref. 5055



THUMBWHEELS

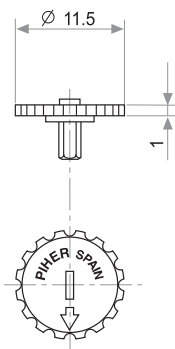


Fig. 5 / Ref. 5034

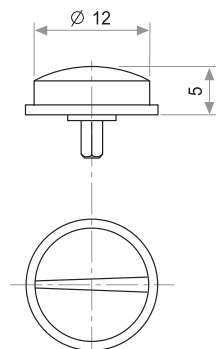


Fig. 15 / Ref. 6008

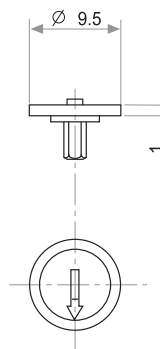


Fig. 16 / Ref. 5039

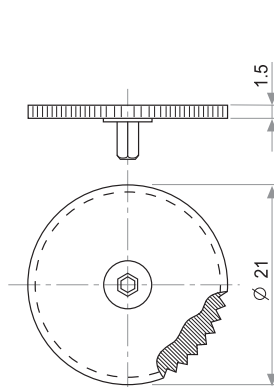


Fig. 17 / Ref. 5062