

## FEATURES

- Cermet resistive element.
- Dust proof enclosure.
- Plastic material according to UL94V-0
- Alumina substrate.
- Also upon request:
  - Wiper positioned at 50% or fully clockwise.
  - Supplied in magazines for automatic insertion.
  - Long life model for low cost control pot. applications
  - Special tapers
  - Mechanical detents
  - Low & extra low torque versions
  - Available as SPDT switch
  - Laser trimming for tighter tolerances

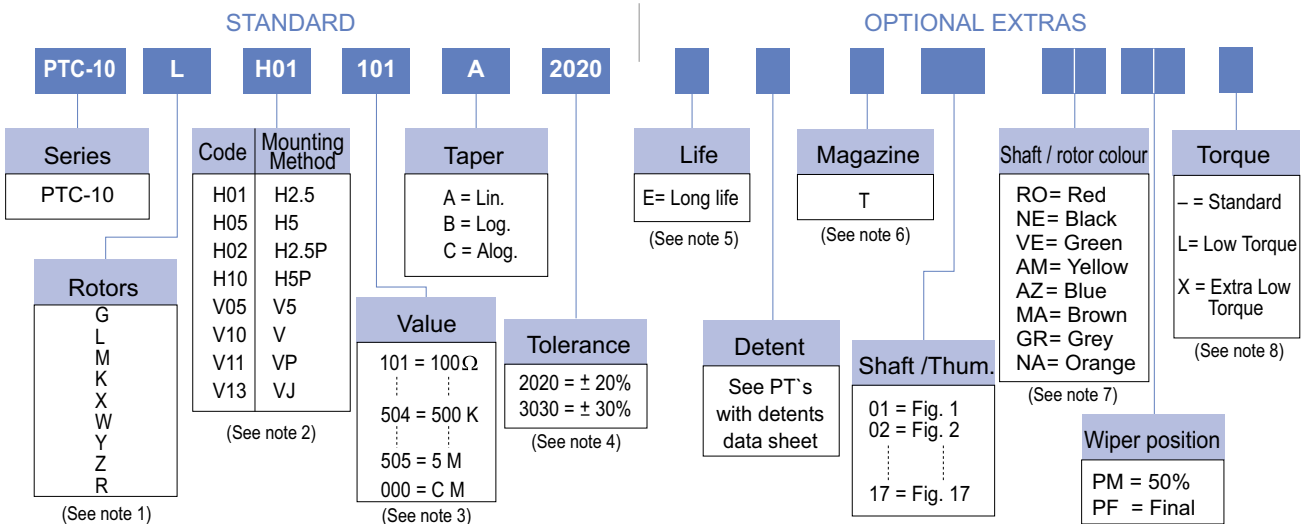
## MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: 235° ± 5°
- Electrical rotation angle: 220° ± 20°
- 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 (\*)
- 100Ω ≤ Rn ≤ 5 M (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
- Tolerance (\*): 100Ω ≤ Rn ≤ 1M Ω ± 20%
- 1MΩ < Rn ≤ 5M Ω ± 30%
- Max. Voltage: 200 VDC (lin) 100 VDC (no lin)
- Nominal Power 70°C (158°F) (see power rating curve)
- 0.33 W (lin) 0.17 W (no lin)
- Taper (\*) (Log. & Alog. only Rn ≥ 1K) Lin ; Log; Alog.
- Residual resistance: ≤ 5.10<sup>-3</sup> Rn (2 Ω min.)
- Equivalent Noise Resistance: ≤ 3% Rn (3 Ω min.)
- Operating temperature: -40°C + 90°C (-40°F + 194°F)
- (\*) Others upon request

## HOW TO ORDER



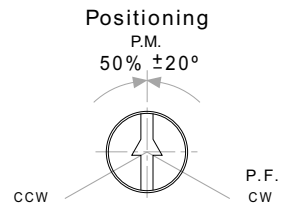
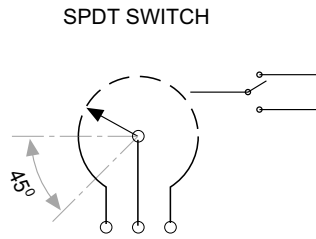
### NOTES:

- "Z" adjustment only available on "H" versions. Rotor "G" only available in purple (shaft/rotor colour "V1").
- Terminal styles: "P" & "J" are crimped terminals
- Value Example: Code: 10 1 = 100 Ω  
 ↳ Num of zeros  
 ↳ First two digits of the value.
- Non standard tolerance, upon request. Example: +7% Code: 07 05  
 ↳ negative tolerance  
 ↳ positive tolerance
- Life
  - Standard 100 cycles
  - Long life 10000 cycles
- Magazines: not available with the H10, V05 and V13 models, nor with adjustment types X, W, Y, Z.  
 Non flammable: housing, rotor and shaft.
- Colour shaft/ rotor:
  - Potentiometer without shaft: only rotor
  - Potentiometer with shaft: only shaft
- Low Torque: 0.25 to 1 Ncm (per pot.)  
 Extra Low Torque: 0.1 to 0.4 Ncm (per pot.). Only available on "H" models without crimping  
 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.



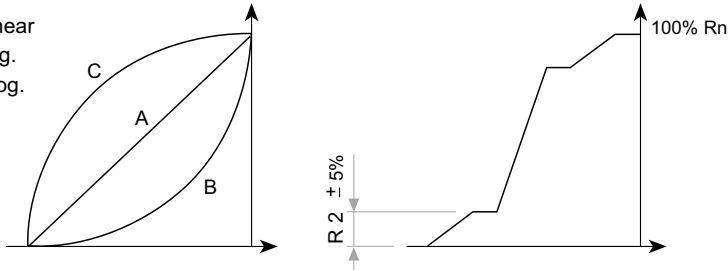
## OPTIONS



Std. Position = CCW

## TAPERS

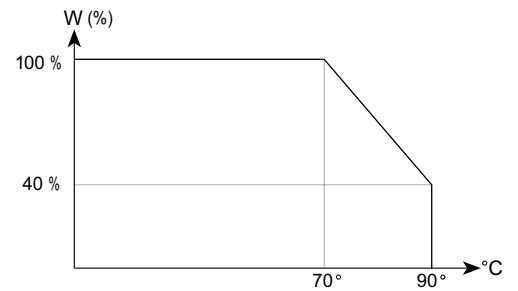
A = Linear  
B = Log.  
C = Alog.



Standard

Special example

## POWER RATING CURVE



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

## TESTS

## TYPICAL VARIATIONS

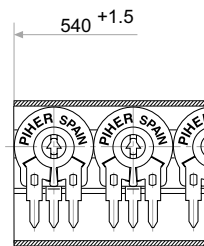
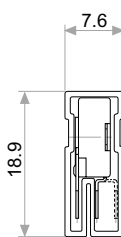
ELECTRICAL LIFE	1.000 h. @ 70°C; 0.33 W	±5 %
MECHANICAL LIFE (CYCLES)	100 @ 10 CPM ...15 CPM	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	-40°C; +90°C	±100 ppm (Rn <100 ±K)
THERMAL CYCLING	16 h. @ 90°C; 2h. @ -40°C	±2.5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 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.)

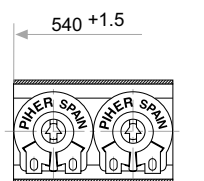
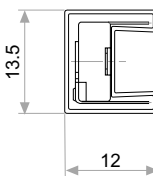


Magazines for PTC-10 h 2.5; h 5

Also crimped term. h 2.5 P

### AUTOMATIC INSERTION

Magazines	Units
PTC-10H & PTC-10V	50 Pieces



Magazines for PTC-10 V

Also crimped term. VP

## SHAFTS

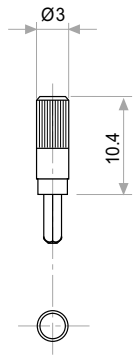


Fig. 1 / Ref. 5016

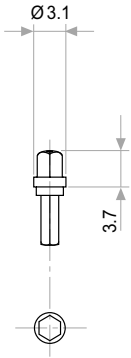


Fig. 2 / Ref. 5053

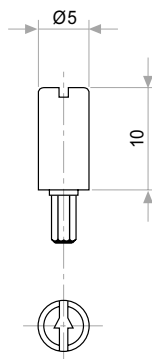


Fig. 3 / Ref. 5012

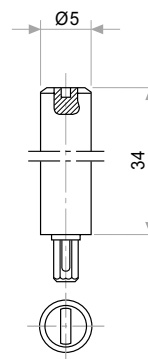


Fig. 4 / Ref. 6053

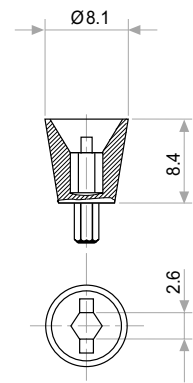


Fig. 6 / Ref. 5035

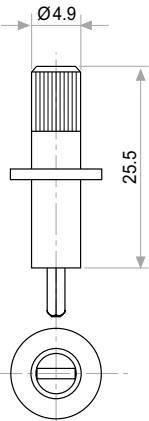


Fig. 7 / Ref. 5115

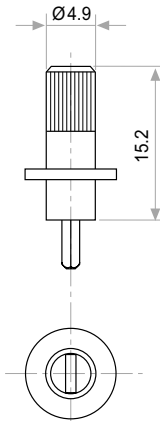


Fig. 8 / Ref. 5116

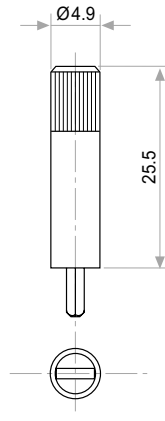


Fig. 9 / Ref. 5119

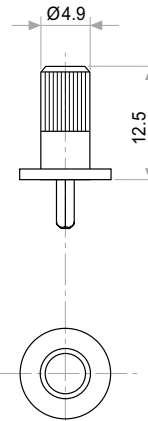


Fig. 10 / Ref. 5120

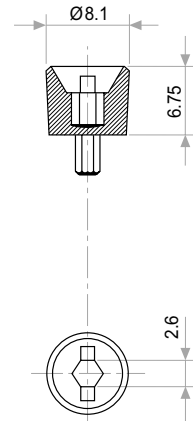


Fig. 11 / Ref. 5027

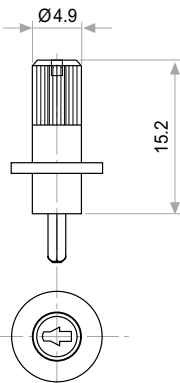


Fig. 12 / Ref. 6052

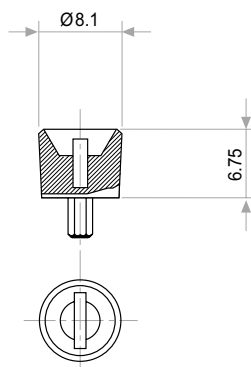


Fig. 13 / Ref. 5121

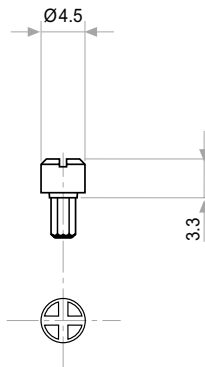


Fig. 14 / Ref. 5055

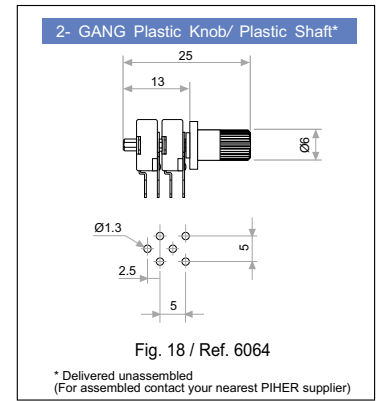


Fig. 18 / Ref. 6064

\* Delivered unassembled  
(For assembled contact your nearest PIHER supplier)

## THUMBWHEELS

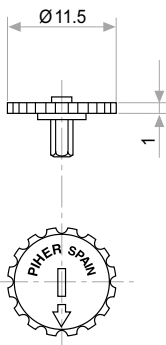


Fig. 5 / Ref. 5034

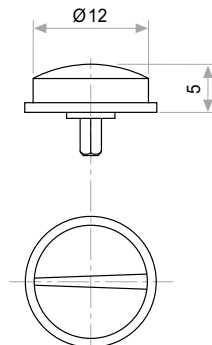


Fig. 15 / Ref. 6008

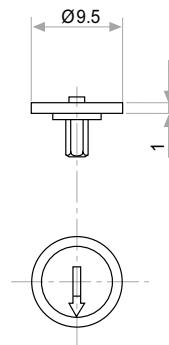


Fig. 16 / Ref. 5039

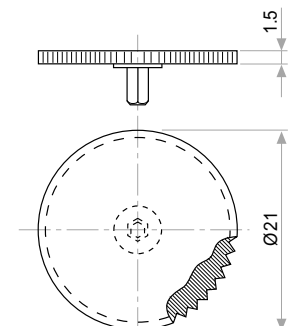


Fig. 17 / Ref. 5062