



- ## ELECTRICAL SPECIFICATIONS

- ## HOW TO ORDER



- MEGGITT

HOW TO ORDER CUSTOM DRAWING

PT-15 LH 01 + DRAWING NUMBER (Max. 16 digits)

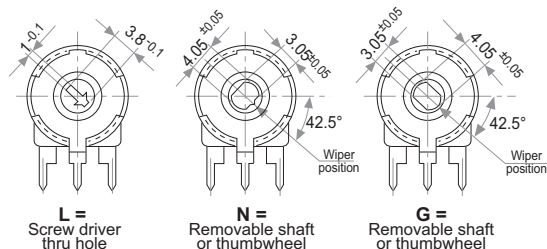
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

STANDARD OPTIONS

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

ROTORS

Wipers positioned at initial (without shaft)



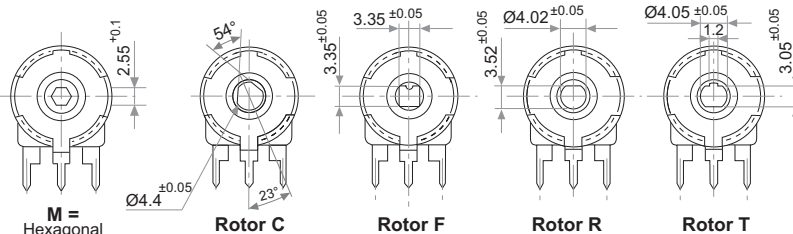
L =
Screw driver
thru hole

N =
Removable shaft
or thumbwheel

G =
Removable shaft
or thumbwheel

M =
Hexagonal
thru hole

Wipers positioned at 50% (without shaft)



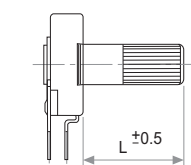
Rotor C

Rotor F

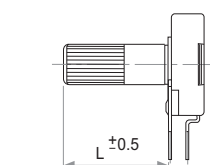
Rotor R

Rotor T

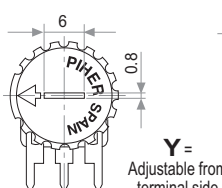
With shaft



X = Adjustable from collector side

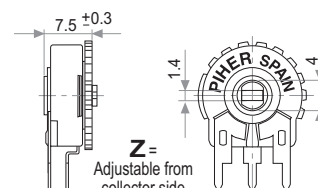


W = Adjustable from terminal side



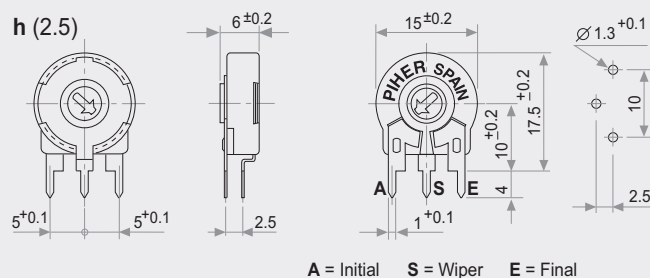
Y =
Adjustable from
terminal side

With thumbwheel

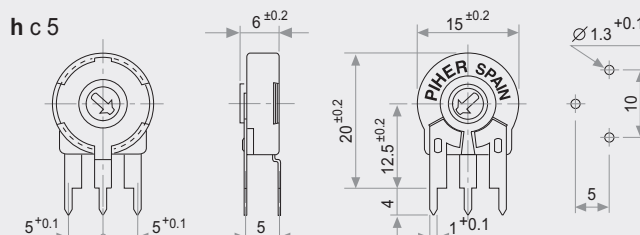
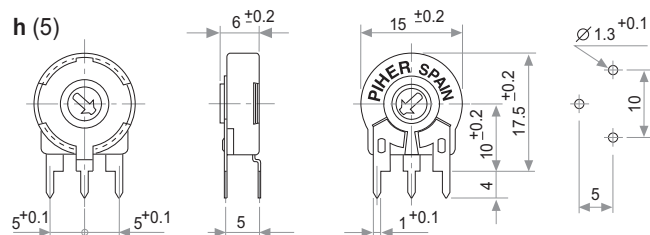
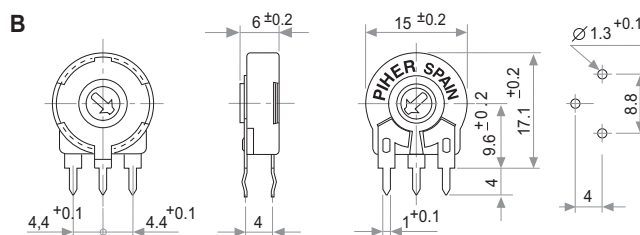


Z =
Adjustable from
collector side.

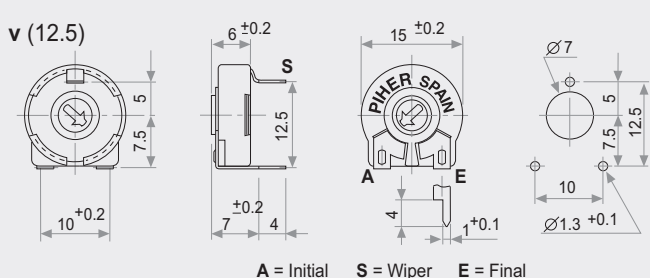
VERTICAL MOUNT - HORIZONTAL ADJUST



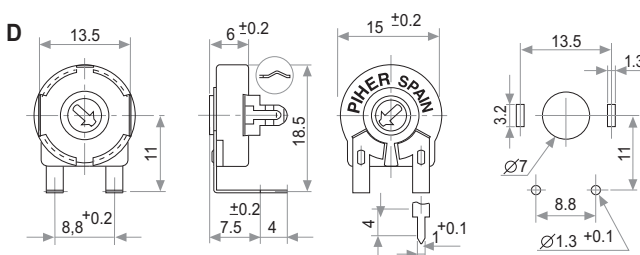
A = Initial **S** = Wiper **E** = Final



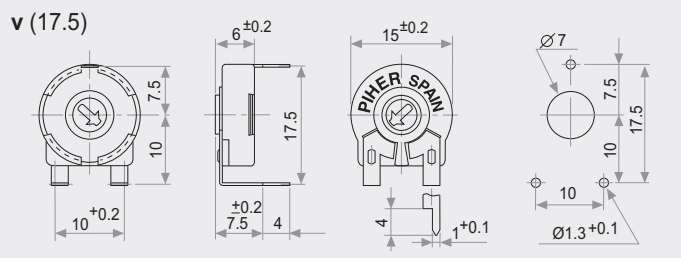
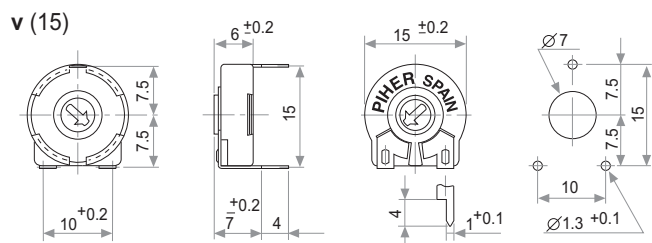
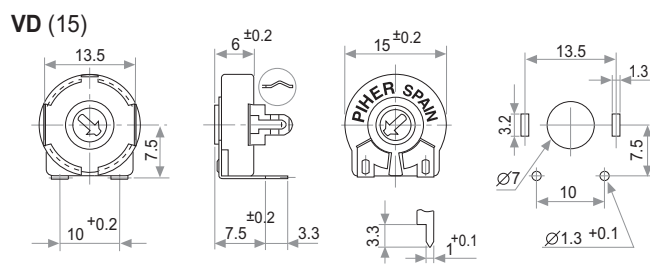
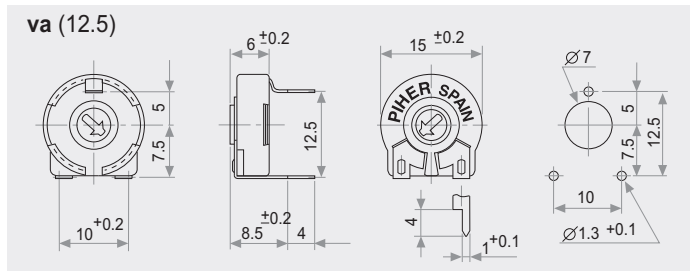
HORIZONTAL MOUNT - VERTICAL ADJUST



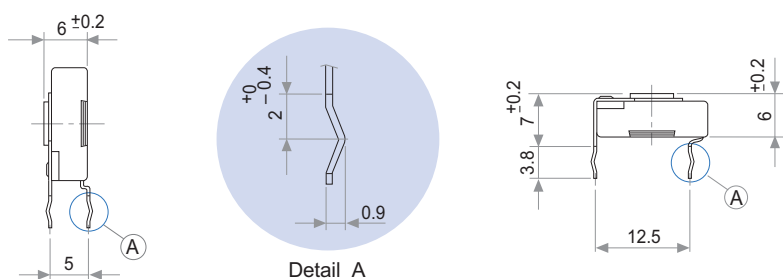
A = Initial **S** = Wiper **E** = Final



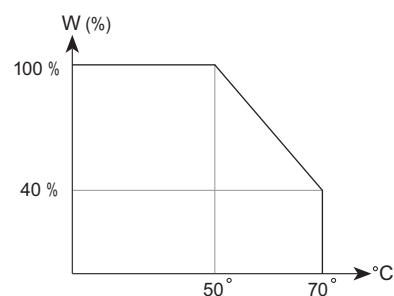
HORIZONTAL MOUNT - VERTICAL ADJUST



CRIMPED TERMINALS (DETAIL)

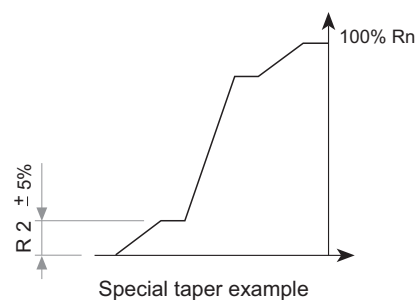
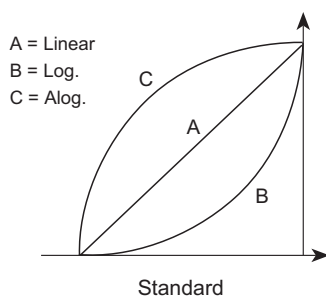


POWER RATING CURVE

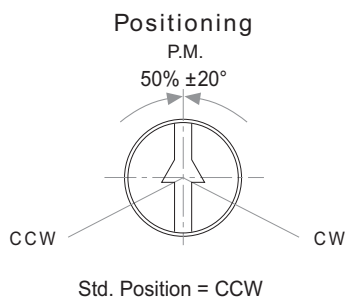


TAPERS

NOTE: Please note terminals disposition when ordering non linear curves.



OPTIONS

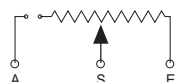


Cut Track

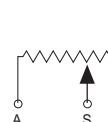
CCW on-off (A)

Std. Position = CCW

CW on-off (E)



A = Initial
S = Wiper
E = Final



TESTS

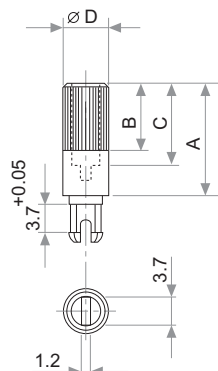
TYPICAL VARIATIONS

ELECTRICAL LIFE	1.000 h. @ 50°C; 0.25 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.

SHAFTS (for N, G and T rotor types, top view)

Hollow model shafts



A = Length (FRS)
B = Knurling length
C = Hollow depth
D = Shaft diameter
FRS = From rotor surface

FIG.	A	B	C	D	Ref.
1	12	9	8	6	5272
2	19	9	15	6	5214
5	9.5	6.5	5.5	6	5208
9	35	9	31	6	5216
10	37.8	9	33.8	6	5218
11	35	25	15	6	5209
13	7.8	4.8	3.8	6	5265

Solid model shafts

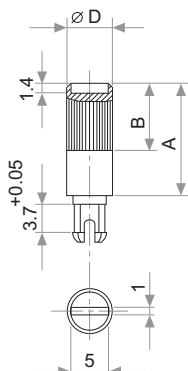
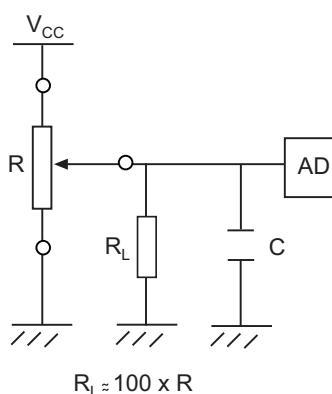


FIG.	A	B	D	Ref.
6	15	9	6	5219
7	16.8	9	6	5220
8	25.3	9	6	5207
12	46	5	6	5227

Slot (1 x 1.4) perpendicular to wiper position. Fig. 12 slot is on line with wiper position.

RECOMMENDED CONNECTIONS

Recommended connection scheme for Piher's position sensors (voltage divider)



SHAFTS (for N, G and T rotor types, top view)

By default shafts, knobs & thumbwheels are delivered unassembled.

Mounted shafts, knobs & thumbwheels are delivered at random position. Positioning available upon request.

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

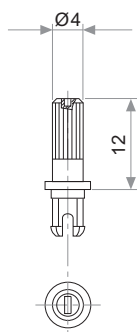


Fig. 3 / Ref. 5372

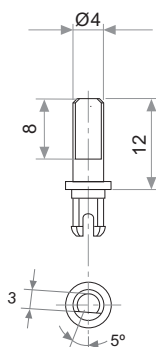


Fig. 15 / Ref. 5217

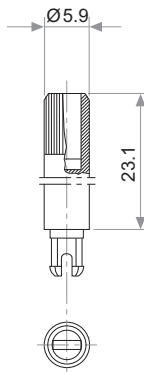


Fig. 17 / Ref. 5210

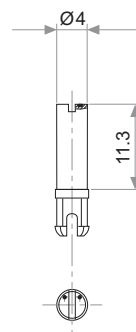


Fig. 18 / Ref. 5271

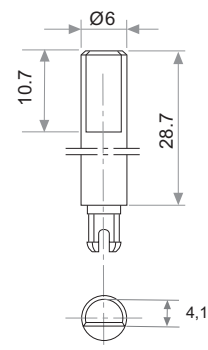


Fig. 19 / Ref. 6032*

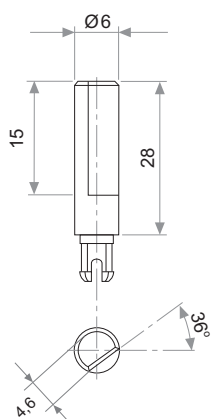


Fig. 20 / Ref. 5369*

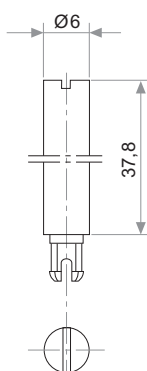


Fig. 21 / Ref. 6031*

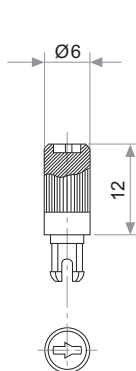


Fig. 22 / Ref. 6029

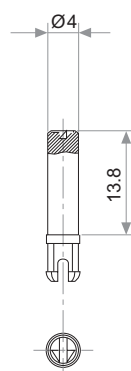


Fig. 23 / Ref. 6022

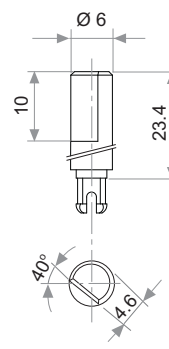


Fig. 29 / Ref. 6162

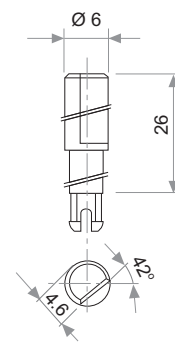


Fig. 25 / Ref. 6059

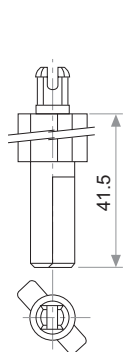


Fig. 27 / Ref. 5268*

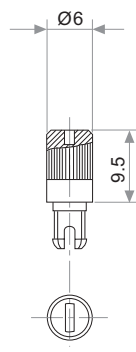


Fig. 28 / Ref. 6055

* Not available in self extinguishable plastic

THUMBWHEEL

By default shafts, knobs & thumbwheels are delivered unassembled.

Mounted shafts, knobs & thumbwheels are delivered at random position. Positioning available upon request.

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

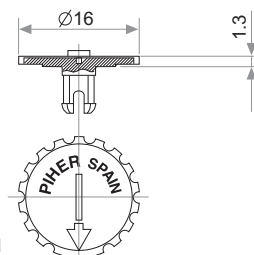


Fig. 4 / Ref. 5371

DETENT CONFIGURATIONS EXAMPLES

This innovative PT's with detents family has been specifically developed to allow the integration of otherwise large and expensive external mechanisms into the body of the potentiometer thus allowing a high range of configurations: special tapers, torque, tolerances, linearity, cut track, etc.

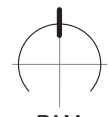
This detent design not only adds a "click" sensation of position, but also offers enormous savings in both cost and space for any given application.

Strong and weak detents can be mixed as per customer's request.

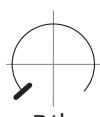
Detent number and positions can be made or fitted to the customer needs or preferences.

 Relative detent positions along the total mechanical travel. Unless otherwise specified the detents are evenly spaced (using the end points as reference)

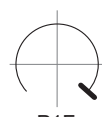
*For more than 13 detents versions please contact your nearest PIHER distributor. Mechanical and/or electrical features may be affected by detents. Detents may not be available for all mounting methods. Please see our separate PTs with detents datasheet at www.piher.net



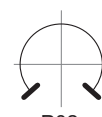
PAM



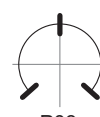
P1I



P1F



P02



P03



P04



P05



P06



P07



P08



P09



P10



P11



P12

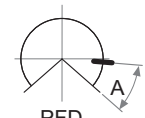


P13

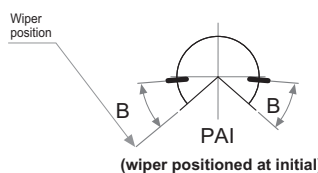
A = 32.625°
B = 34.5°



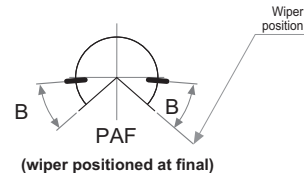
PID



PFD



(wiper positioned at initial)



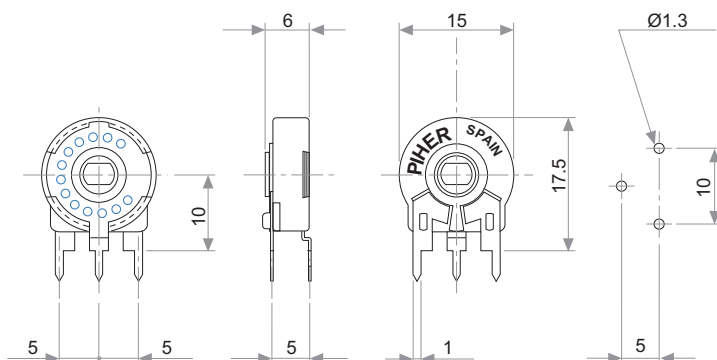
(wiper positioned at final)

DETENT DETAILS

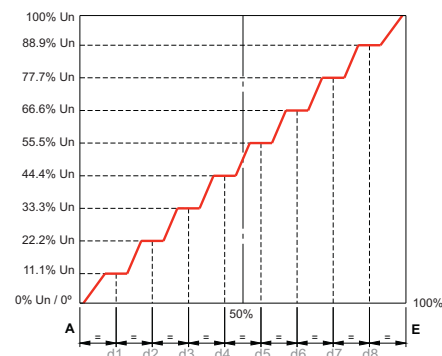
13 detents example

DETENTS & STEPPED OUTPUTS

10 detents example



Our potentiometers can feature flattened regions in its output curve. This allows engineers to precisely control constant voltage outputs within the normal rotational range of their potentiometer. These regions can be combined with Piher's detent feature providing a positive mechanical action when rotating the potentiometer into these constant voltage zones.



All Piher products can be adapted to meet customer's requirements.

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[PT15NV18-255A2020](#) [PT15NV18-252A2020](#) [PT15LH06-202A2020](#) [PT15LV18-253A2020](#) [PT15WB-1M-A-GREY2](#)
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[PT15YH06-152A2020-4CR](#) [PT15YV18-250A3030-4CR](#) [PT15NV18-253A2020](#) [PT15NH06-251A2020](#) [5209INI](#)
[PT15LV18-205A3030](#) [PT15LB-254A2020](#) [PT15LV15-200KA](#) [PT15LV18-102A2020](#) [PT15LV18-202A2020](#) [PT15LV18-505A3030](#) [PT15LB10KA](#) [PT15LH06-204A2020](#) [PT15NH06-252A2020](#) [PT15NH06-255A2020](#) [PT15LH06-503A2020](#)
[PT15LV18-201A2020](#) [PT15WH06254A202008CR](#) [PT15WB-100K-A-BLK #8](#) [PT15NV18-251A2020](#) [PT-](#)
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