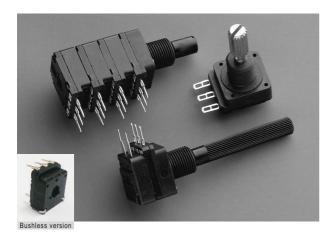
PIHFR



MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: 300° ± 5°

- Electrical rotation angle: 280° ± 20°

- Torque: 0.5 to 1.5 Ncm.

(0.7 to 2.1 in-oz)

- Stop torque: > 40 Ncm. (>56 in-oz)

– Max. torque nut (binding out): < 80 Ncm. (112 in-oz)

- Thrust and pull in the shaft: > 25 N

PC-16 16 mm Carbon Potentiometer

FEATURES

- Carbon resistive element
- IP54 protection according to IEC 60529
- Polyester substrate
- Modular gang type (up to 4)
- Self extinguishable material UL 94-V0
- Upon request:
 - · Metalic support
 - Stereo matching
 - Switch
 - · Nut & washer
 - · Bushless option available

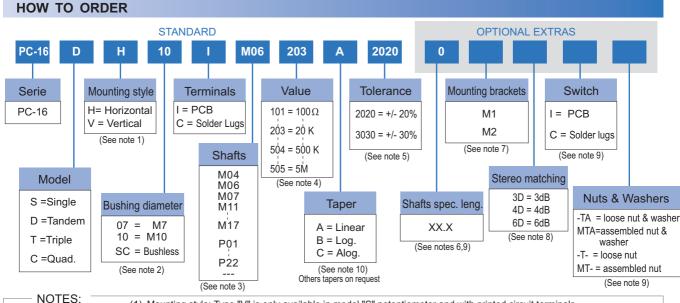
ELECTRICAL SPECIFICATIONS

Range of values (*)

 $100\Omega \le Rn \le 5 M$ (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)

- Tolerance (*): $100\Omega \le Rn \le 1M \Omega = \pm 20\%$ $1M\Omega \ < Rn \le 5M \ \Omega \quad ---- \pm 30\%$

- Max. Voltage: 250 VDC (lin) 125 VDC (no lin)
- Nominal Power 50°C (122°F) (see power rating curve) 0.2 W (lin) 0.1 W (no lin)
- Taper (*) (Log. & Alog. only Rn > 1K) Lin; Log; Alog.
- Residual resistance(*): $\leq 0.5\%$ Rn (5 Ω min.)
- Equivalent Noise Resistance: $\leq 3\%$ Rn (3 Ω min.)
- Operating temperature**: -25°C + 70°C (-13°F + 158°F)
- * Others upon request
- ** Up to 85°C depending on application



(1) Mounting style: Type "V" is only available in model "S" potentiometer and with printed circuit terminals.

(2) Bushings: Type "10" has two paralell flat surfaces for avoiding rotation. Bushless option only available for single model.

(3) M07 sh (4) Value: M07 shaft is only available with M10 bushing. --- = no shaft

Code: 10 100 O Number of zeros

➤ Number of zeros

➤ 2 first digits of the value.

• In models "D", "T", "C", with different values, they will be asked by drawings.

(5) Tolerance (non standard), upon request. Example: +7% Code: <u>07</u> <u>05</u> negative tolerancepositive tolerance

(6) Shaft special length:

Only for special length and plain shafts (not knurled). Example: Shaft Ø6.35 L= 24.5 M07 24.5

NOTE: Maximun length recommended: L = 45

(7) Mounting brackets: Only applicable for model "S", mounting "H" and without switch. (8) Stereo matching: not available for single models. Maximun will be: ●3dB for model "D" ●4dB for model "T" ●6dB for model "C"

(9) Not available for Bushless version.

(10) Switch option not available with antilog taper.

MEGGITT

special length

www.piher.net

HOW TO ORDER CUSTOM DRAWING

STANDARD OPTIONS

PC-16 S V + 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.

Shaft length 0 Standard Length

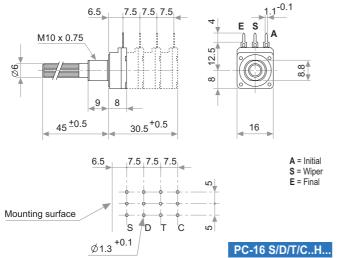
Mounting brackets Without mounting brackets

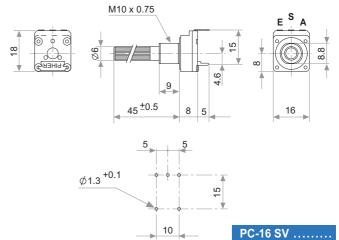
Stereo matching Only on request (see note 8)

Switch No switch

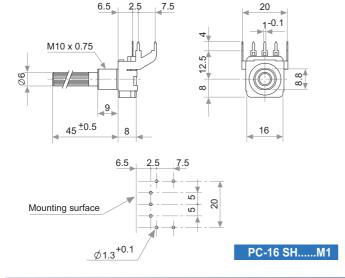
Nut & washer Without nut and washer

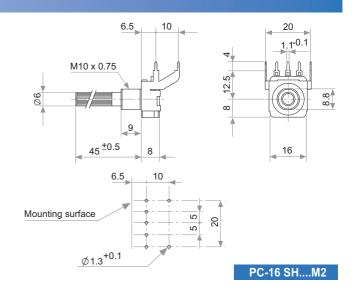
MODELS



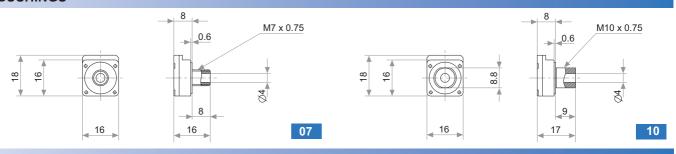


METALLIC SUPPORT

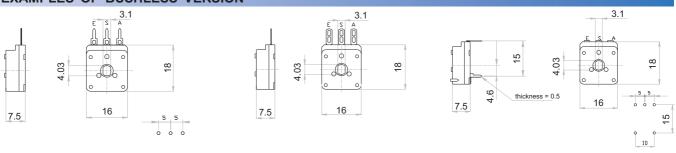




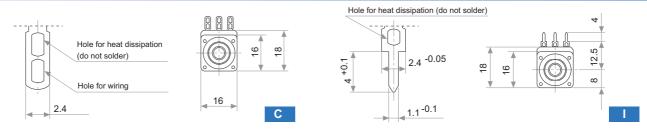
BUSHINGS

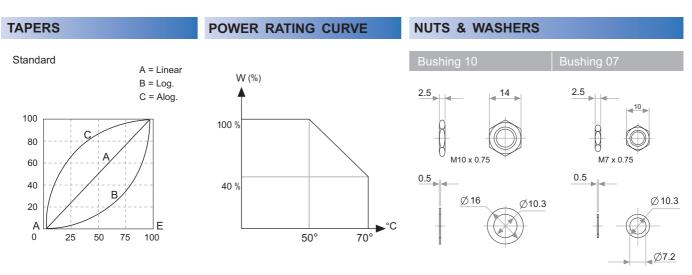


EXAMPLES OF BUSHLESS VERSION



TERMINALS



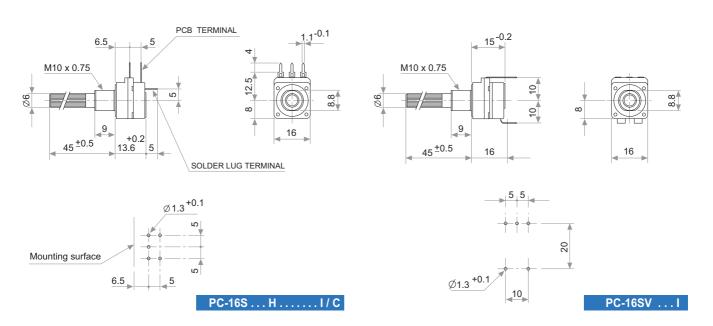


NOTE = Please note relative terminal positions when ordering non linear tapers.

TESTS		TYPICAL VARIATIONS
ELECTRICAL LIFE	1.000 h. @ 50°C; 0.2 W	±5 %
MECHANICAL LIFE : POT.* SWITCH	25.000 (10-15 CPM) 10.000 (1 A, 50 VAC)	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	–25°C; +70°C	±300 ppm/°C (Rn <100 KΩ)
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 %

^(*) only applicable to values ≥1K. For lower values please consult.

SWITCH



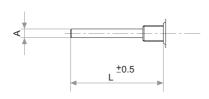
SWITCH SPECIFICATIONS			
NOMINAL CURRENT	1A, 250 VAC		
CONTACT RESISTANCE (initial)	10 m Ω		
OPERATING TORQUE	1 to 3 Ncm (1.4 to 4.2 in oz)		
OPERATING ANGLE	30° ± 5°		
TEST VOLTAGE	500 V		

PACKAGING

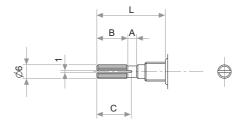
Boxes of 100 pieces (single body model): Inner dimensions 250 x 160 x 95 mm

METALIC SHAFTS

STANDARD

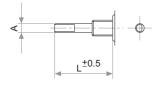


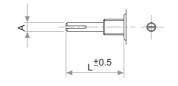
A	L CODE	
4	45	M04
6	45	M06
6.35	45	M07



A	В	С	L	CODE
2	5	7	15	M11
2	10	11	20	M12
4	12	14	25	M13
4	12	14	30	M14
4	12	14	35	M15
4	12	14	40	M16
4	12	14	45	M17

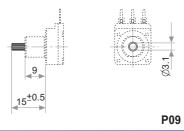
SPECIAL



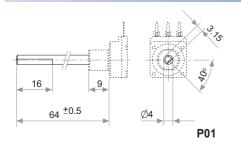


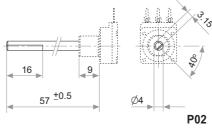
Α
4
6
6.35

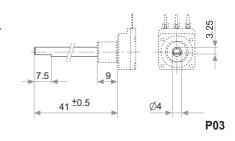
PLASTIC SHAFTS Ø3.1

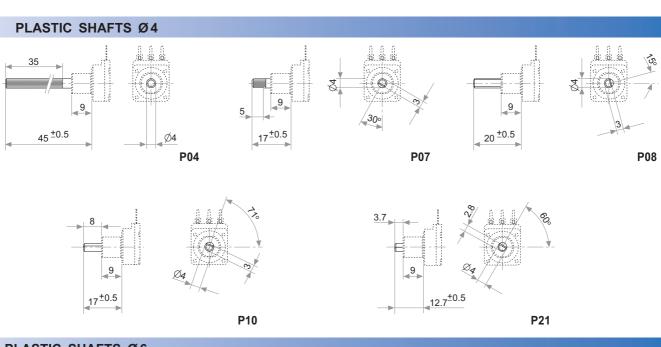


PLASTIC SHAFTS Ø4







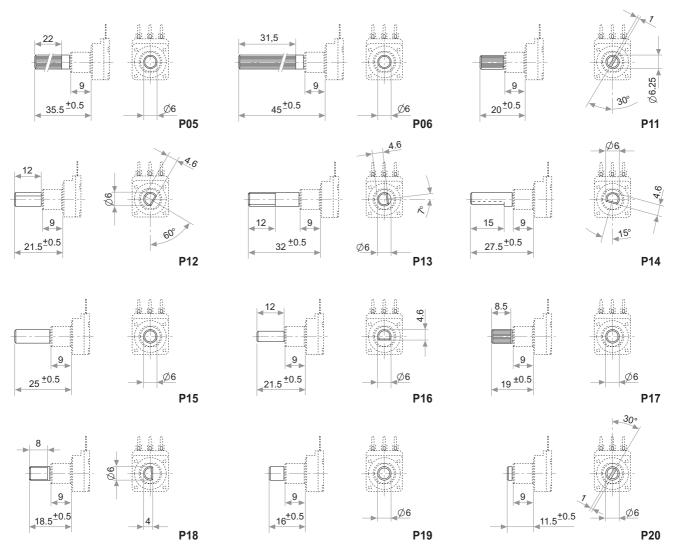


PLASTIC SHAFTS Ø6

15.5 9

25 ±0.5

P22



NOTE: Shaft position shown full CCW. Any other position for plastic shafts has to be shiftted n times 24° Other positions upon request.

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PC16SH07CP06102A2020TA PC16DH07CP06504A2020TA PC16SH10CP05-504A2020-TA
PC16DH07CP06255A2020TA PC16DH07IP06103A2020TA PC16DH07CP06103A2020TA
PC16SH07CM04102B202015.0C-T PC16SH07CP06504A2020CTA PC16SV-10IP06-504A-2020
PC16TH07CP06473A2020TA PC16SH10CP05-103A2020-C-TA PC16SV10IP06-504A1010-20.0-TA
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PC16SH10M17474A2020TA PC16SH07CP06103A2020-18.0TA PC16SH07IP21104A1010 PC16SH07IP212224A1010
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