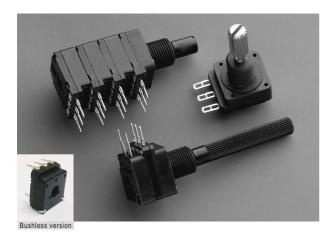
PIHFR



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

* Others check availability.

** Up to 85°C depending on application.

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 & shaftless models.
- · Assemblies with wires and connectors.

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)

− Standard tolerance*: $100\Omega \le Rn \le 1M \Omega$ ± 20%

 $1M\Omega$ < Rn \leq 5M Ω \pm 30%

– Max. Voltage: 250 VDC (lin) 125 VDC (no lin)

- Nominal Power 50°C (122°F) (see power rating curve)

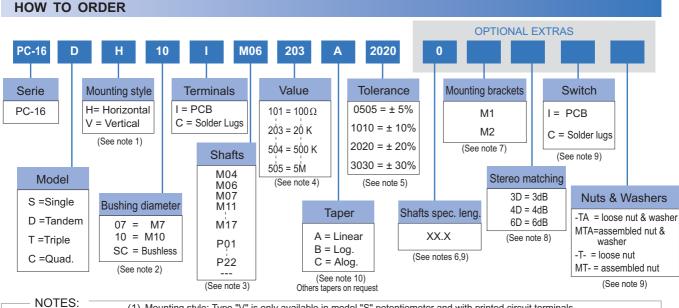
0.2 W (lin) 0.1 W (no lin)

- Taper* Lin; Log; Alog (Log. & Alog. only Rn ≥ 1K).

– 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)



(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 shaft is only available with M10 bushing. --- = no shaft

(4) Value: Code: 100Ω Number of zeros 2 first digits of the value.

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

Example: +7% Code: 07 05 (5) Tolerance (non standard), upon request. negative 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 special length shafts
- (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.

HOW TO ORDER CUSTOM DRAWING

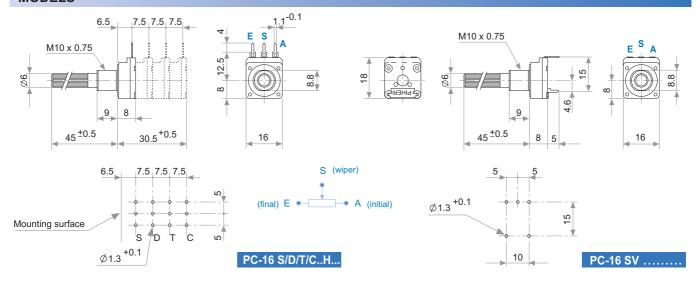
STANDARD OPTIONS

PC-16 S V + DRAWING NUMBER (Max. 16 digits)

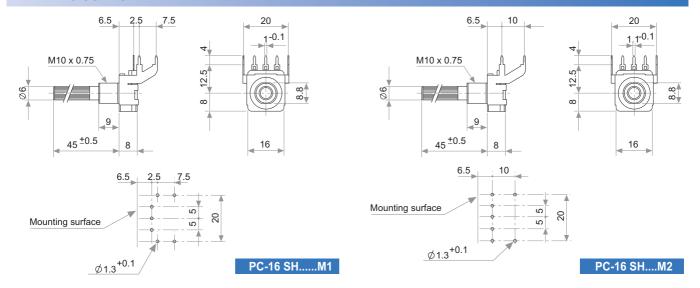
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

Shaft length 0 Standard Length Mounting bracketsWithout mounting brackets Stereo matching Only on request (see note 8) Switch No switch Nut & washerWithout nut and washer

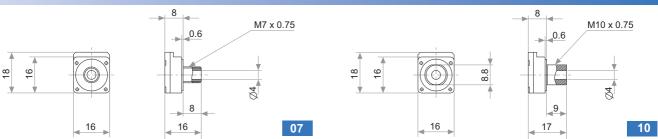
MODELS

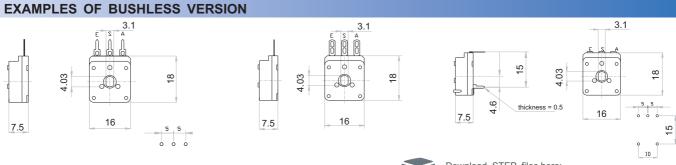


METALLIC SUPPORT

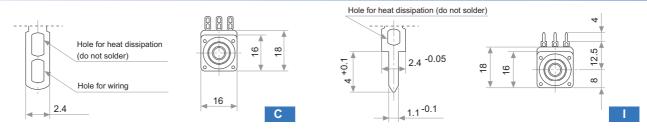


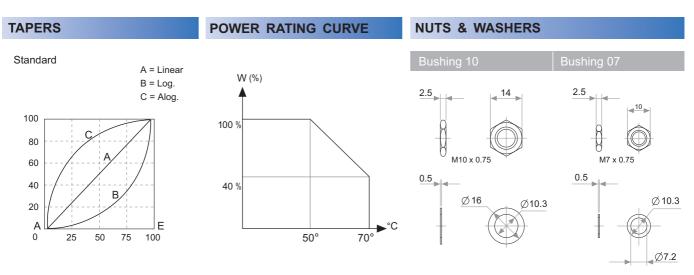
BUSHINGS





TERMINALS



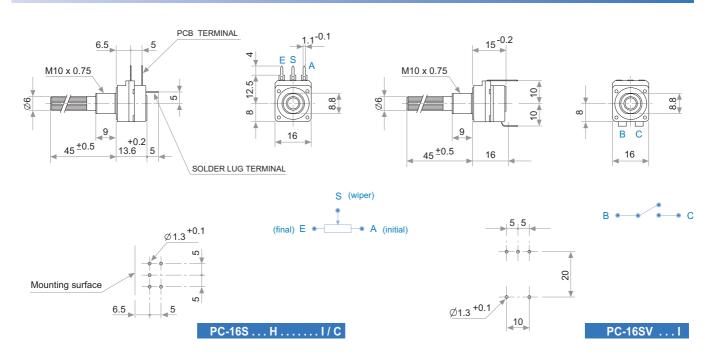


NOTE = Please note relative terminal positions when ordering non linear tapers.

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 M Ω)
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



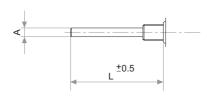
SWITCH SPECIFICATIONS			
NOMINAL CURRENT	1A, 250 VAC		
CONTACT RESISTANCE (initial)	10 m Ω		
OPERATING TORQUE	1 to 3 Ncm (1.4 to 4.2 in oz)		
OPERATING ANGLE	30° ± 5°		
TEST VOLTAGE	500 V		

PACKAGING

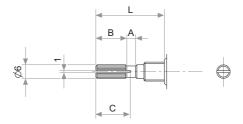
Boxes of 100 pieces (single body model): Inner dimensions 250 x 160 x 95 mm

METALIC SHAFTS

STANDARD

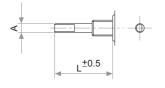


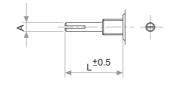
A	L	CODE
4	45	M04
6	45	M06
6.35	45	M07



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

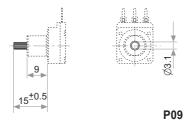
SPECIAL



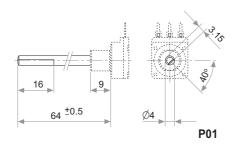


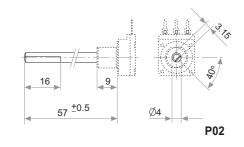
Α
Ø4
Ø6
Ø 6.35

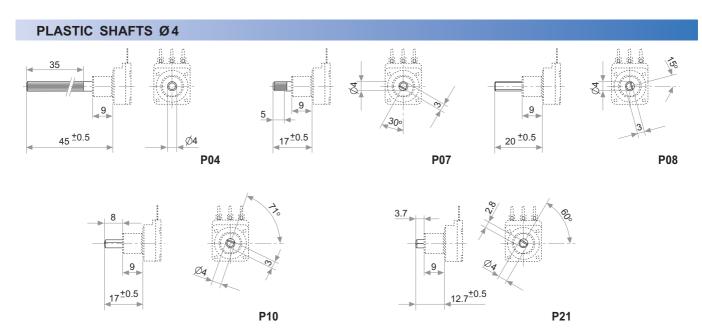
PLASTIC SHAFTS Ø 3.1



PLASTIC SHAFTS Ø4

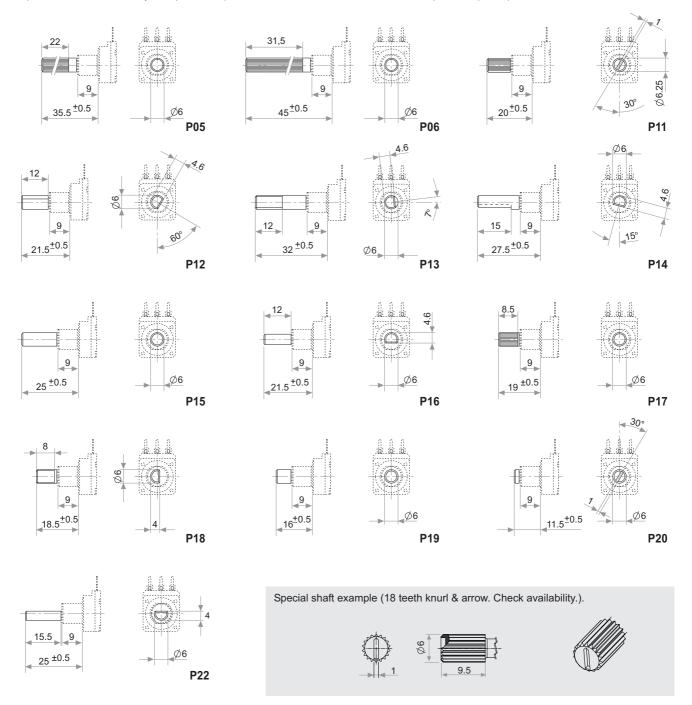






PLASTIC SHAFTS Ø6

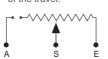
Shaft position shown full CCW. Any other position for plastic shafts has to be shiftted n times 24°. Other positions upon request.



OPEN CIRCUIT FEATURE (CUT TRACK)



Cut track at the beginning of the travel.



PCF Cut track at the end of the travel





CW on-off (E)

CCW on-off (A)

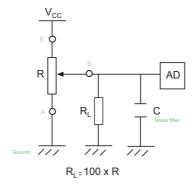
A = Initial S = Wiper E = Final.

PCI, PCF and other configurations available upon request. Check the ordering code with Piher.

RECOMMENDED CONNECTIONS

Piher potentiometer's recommended connection circuit for a position sensor or control application.

(voltage divider circuit electronic design).



Disclaimer

The product information in this catalogue is for reference purposes. Please consult for the most up to date and accurate design information.

Piher Sensors & Controls S.A., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Piher"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product described herein.

Piher disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Piher's terms and conditions of sale, including but not limited to the warranty expressed therein, which apply to these products.

No licence, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Piher.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Piher products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Piher for any damages arising or resulting from such use or sale. Please contact authorised Piher personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Information contained in and/or attached to this catalogue may be subject to export control regulations of the European Community, USA, or other countries. Each recipient of this document is responsible to ensure that usage and/or transfer of any information contained in this document complies with all relevant export control regulations. If you are in any doubt about the export control restrictions that apply to this information, please contact the sender immediately. For any Piher International Corp. Exports, Note: All products / technologies are EAR99 Classified commodities. Exports from the United States are in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited.

Piher is an AmphenolTM company.











Note: Piher products can be adapted to meet customer's requirements. Due to continuous process improvement, specifications are subject to change without notice.

v180220

Contact

Piher Sensors & Controls SA Polígono Industrial Municipal Vial T2, 22, 31500 Tudela - Spain. t. +34-948-820450 f. +34-948-824050

sales@piher.net

www.piher.net

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Potentiometers category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

58C2-2 590SX1N32F103SS 591SXJ48S252SC 591SXP56S252SC 591SXP56S503SC D31409 70B1G048K502X-A 70B1M032S502W 70B1N056S202W 70B8N056F502W 70J8N048S104U 70L1N040P103W 70L1N048P103X 70L1N048S103W GA2L040S102UC GA2L040S103UC GS1G044P103UA GS1N048P103UA GS1T032S103UA A43-1500 A43-20K A47-200K A4720K RA20LASD251A 132-2-0-202 RK14K1220-F25-C0-A103 RK14K1220F25C0C104 RK14K1220-F25-C1-B103 14910FAGJSX10102KA 14910FBGLFY00103KA 14910AABHSX10103KA 14910FAGJSX10104KA 152-01031 C0342008 5K P270-109A J97589 23M728 RV170F-10-15R1-B500K-0021 RV8NAYSB104A 917523A A43-40 A43-750 A43S-5 A47-15K A4750K SPPG048S103U SPPG056P103U SWE-10 GA2G040F103BA GS1G052F103UA-A