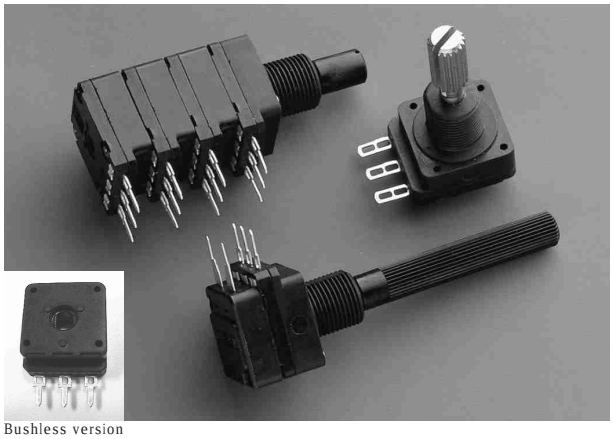
PIHER

PC-16 16 mm Carbon Potentiometer



Bushless version

FEATURES

- Carbon resistive element
- Dust proof enclosure
- 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

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

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: 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: ≤ 0.1% Rn (2 Ω min.)

– Equivalent Noise Resistance: ≤ 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

HOW TO ORDER

STANDARD | OPTIONAL EXTRAS

PC-16	D	H	10	I	M06	203	A	2020	0				

Serie
PC-16

Mounting style
H= Horizontal
V = Vertical
(See note 1)

Terminals
I = PCB
C = Solder Lugs

Value
101 = 100 Ω
203 = 20 K
504 = 500 K
505 = 5M
(See note 4)

Tolerance
2020 = +/- 20%
3030 = +/- 30%
(See note 5)

Mounting brackets
M1
M2
(See note 7)

Switch
I = PCB
C = Solder lugs
(See note 9)

Model
S =Single
D =Tandem
T =Triple
C =Quad.

Bushing diameter
07 = M7
10 = M10
SC = Bushless
(See note 2)

Shafts
M04
M06
M07
M11
M17
P01
P22

(See note 3)

Taper
A = Linear
B = Log.
C = Alog.
(See note 10)
Others tapers on request

Shafts spec. leng.
XX.X
(See notes 6,9)

Stereo matching
3D = 3dB
4D = 4dB
6D = 6dB
(See note 8)

Nuts & Washers
-TA = loose nut & washer
MTA=assembled nut & washer
-T- = loose nut
MT- = assembled nut
(See note 9)

NOTES:

(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: 10 1 100 Ω
10 → 2 first digits of the value.
1 → Number of zeros
• In models "D", "T", "C", with different values, they will be asked by drawings.
(5) Tolerance (non standard), upon request. Example: +7% -5% Code: 07 05
07 → negative tolerance
05 → positive 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
24.5 → 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.

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

HOW TO ORDER CUSTOM DRAWING

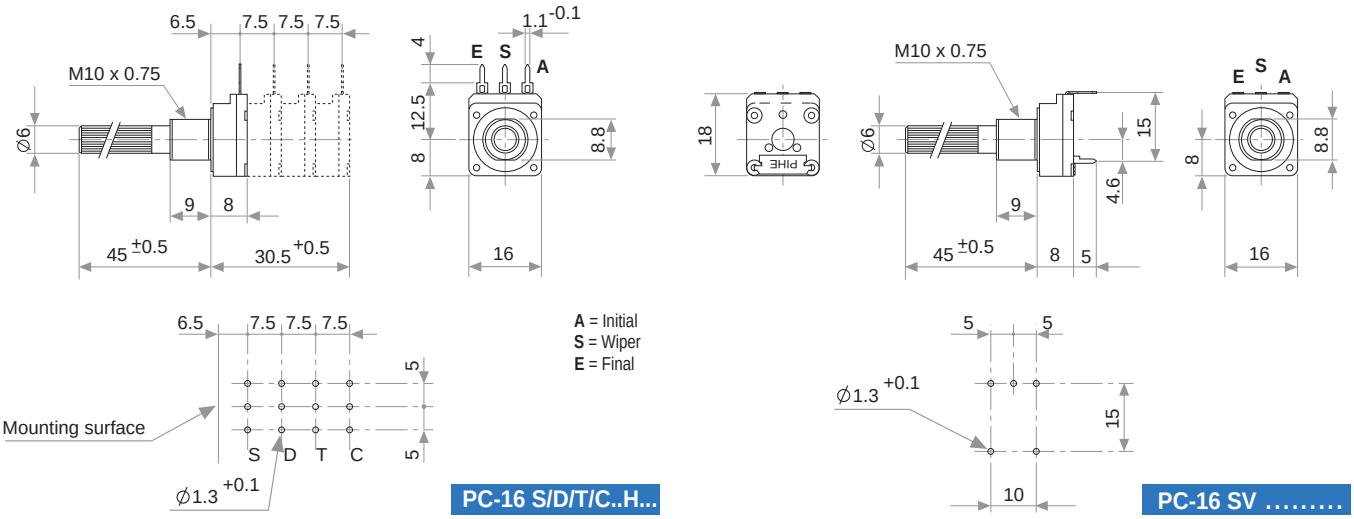
PC-16 S V + DRAWING NUMBER (Max. 16 digits)

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

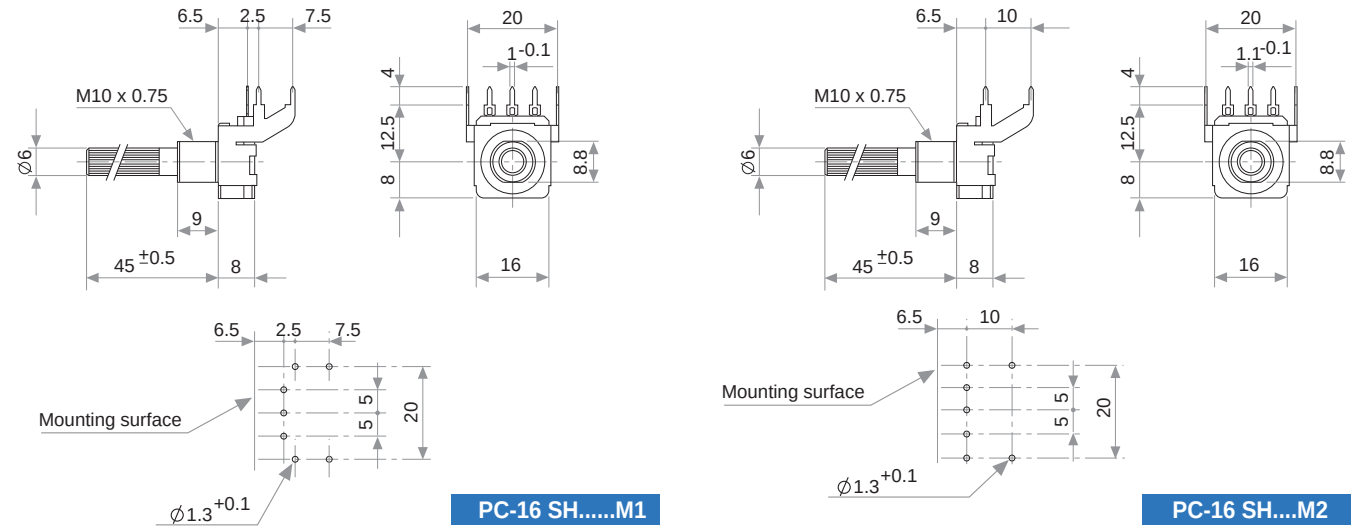
STANDARD OPTIONS

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

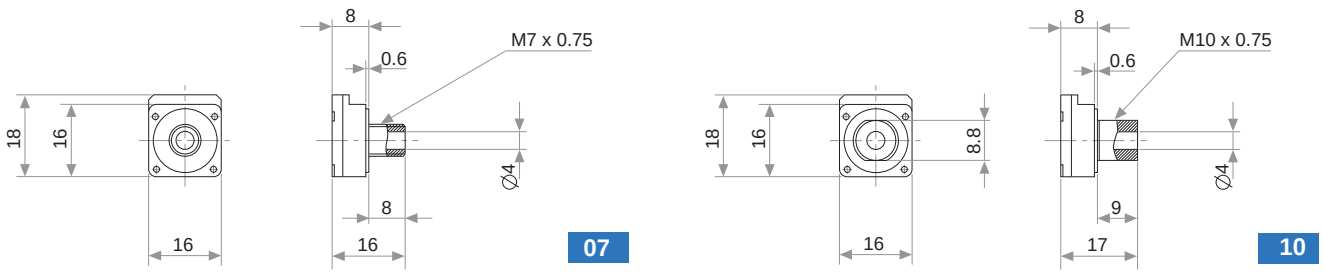
MODELS



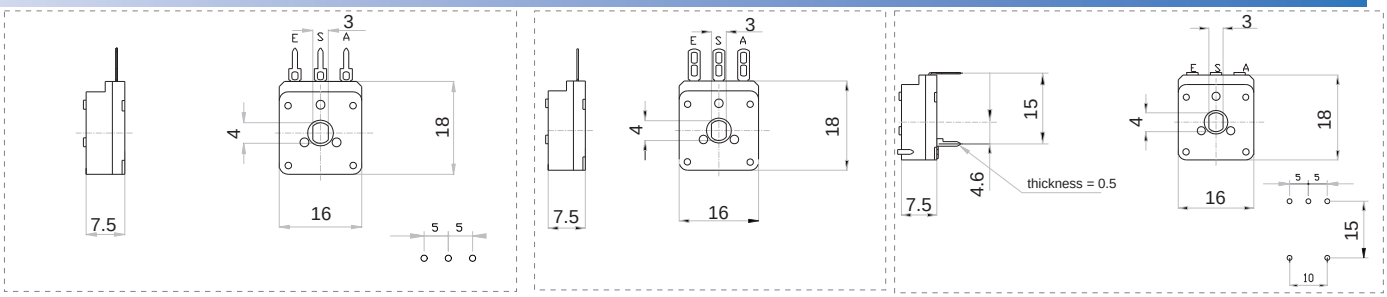
METALLIC SUPPORT



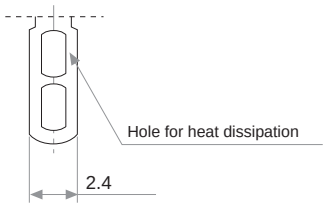
BUSHINGS

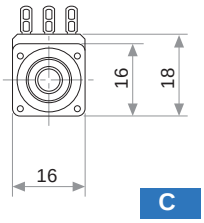


EXAMPLES OF BUSHLESS VERSION

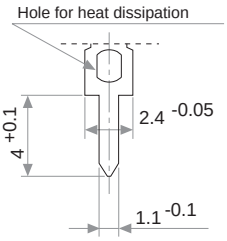


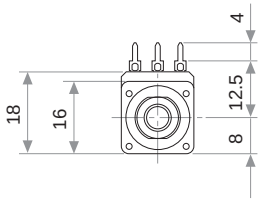
TERMINALS





C



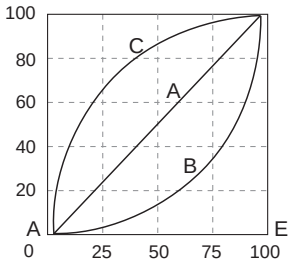


I

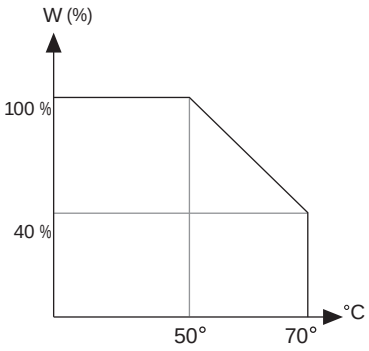
TAPERS

Standard

A = Linear
B = Log.
C = Alog.

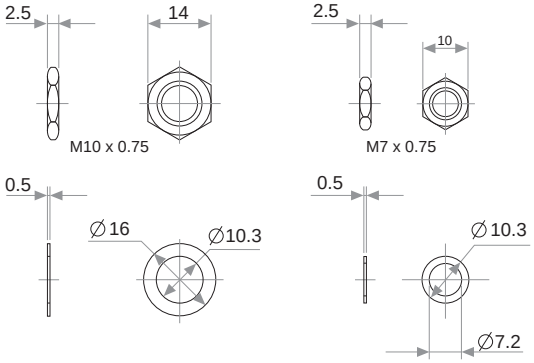


POWER RATING CURVE



NUTS & WASHERS

Bushing 10 | Bushing 07

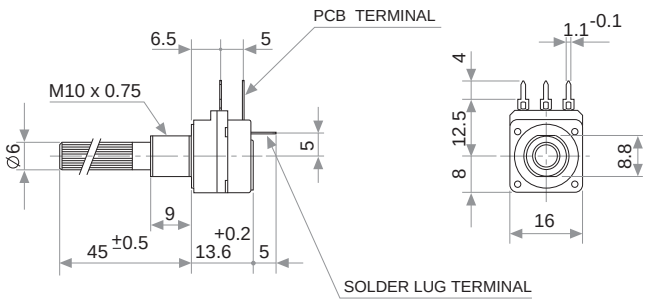


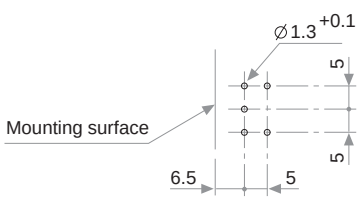
NOTE = Please note relative terminal positions when ordering non linear tapers.

TESTS

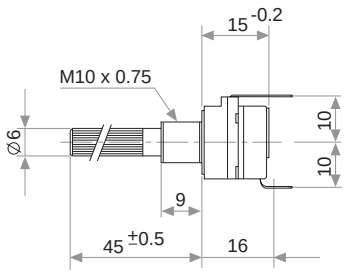
		TYPICAL VARIATIONS
ELECTRICAL LIFE	1.000 h. @ 50°C; 0.2 W	±5 %
MECHANICAL LIFE : POT. SWITCH	25.000 (10-15 CPM) 10.000 (1 A, 50 VAC)	±3 % (Rn < 1 MΩ)
TEMPERATURE COEFFICIENT	–25°C; +70°C	±300 ppm/°C (Rn < 100 KΩ)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ –25°C	±2.5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	±2 %

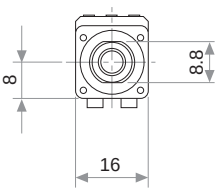
SWITCH

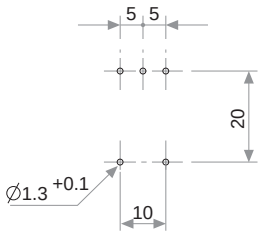




PC-16S . . . H . . . . . . I / C







PC-16SV . . . I

SWITCH SPECIFICATIONS

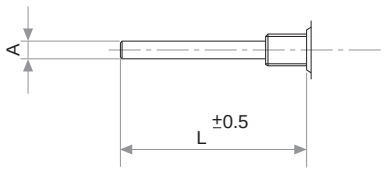
NOMINAL CURRENT	1A, 250 VAC
CONTACT RESISTANCE (initial)	10 m Ω
OPERATING TORQUE	1 to 3 Ncm (1.4 to 4.2 in oz)
OPERATING ANGLE	30° ± 5°
TEST VOLTAGE	500 V

PACKAGING

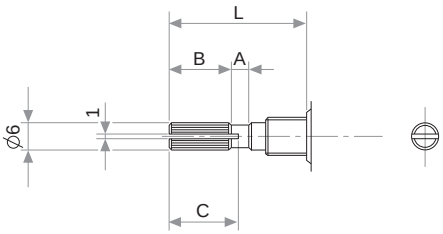
Boxes of 50 pieces (160 x 110 x 85 mm.)

METALIC SHAFTS

STANDARD

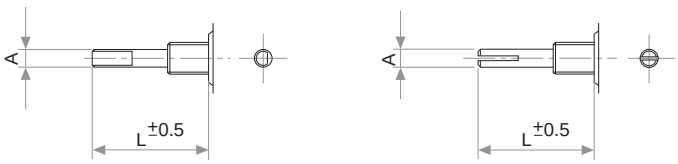


A	L	CODE
4	45	M04
6	45	M06
6.35	45	M07



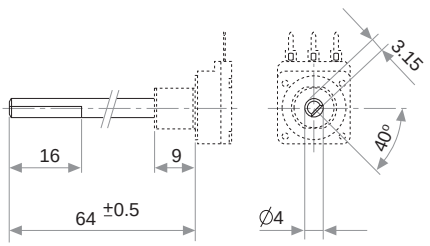
A	B	C	L	CODE
2	5	7	15	M11
2	10	11	20	M12
4	12	14	25	M13
4	12	14	30	M14
4	12	14	35	M15
4	12	14	40	M16
4	12	14	45	M17

SPECIAL



A
4
6
6.35

PLASTIC SHAFTS Ø4



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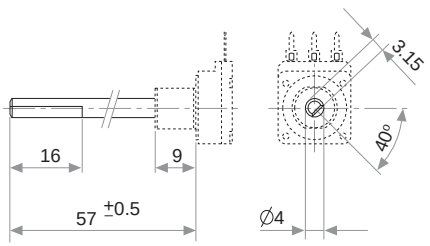

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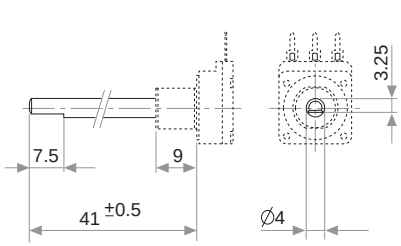
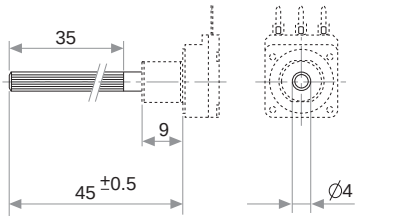


P03

PLASTIC SHAFTS Ø4



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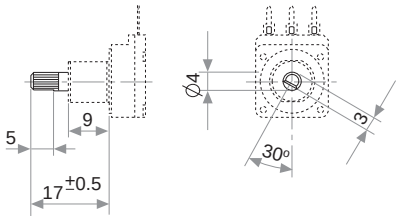

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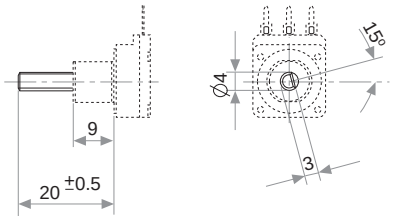

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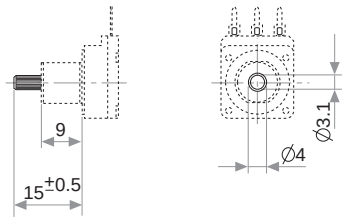

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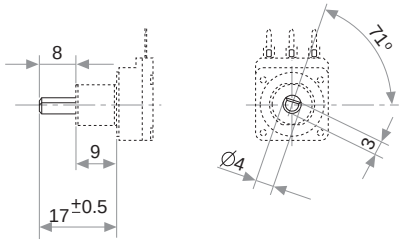

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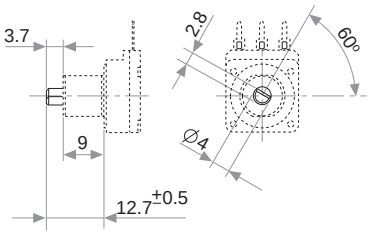

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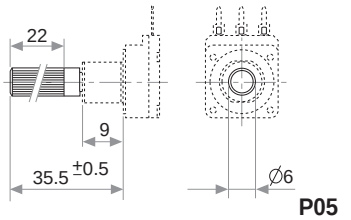
PLASTIC SHAFTS Ø6



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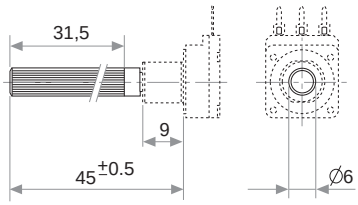

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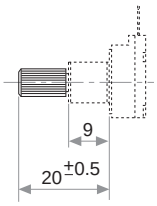

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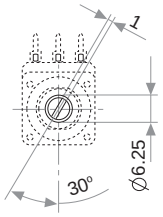

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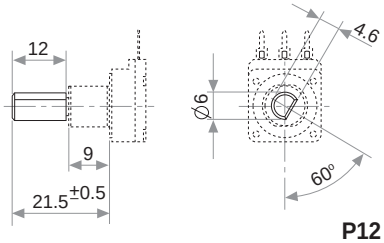

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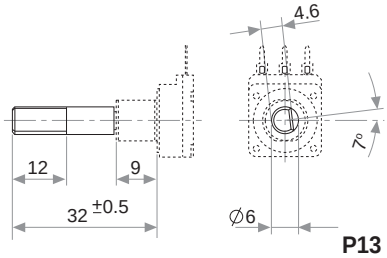

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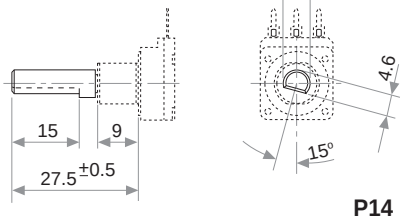

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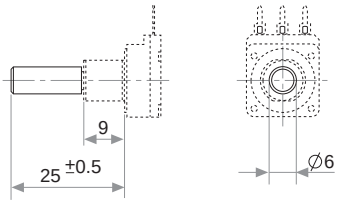

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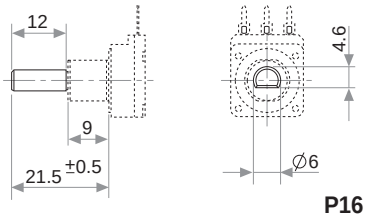

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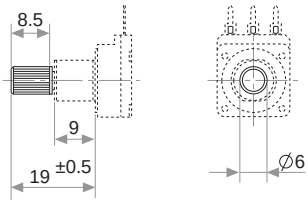

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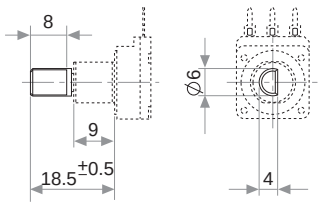

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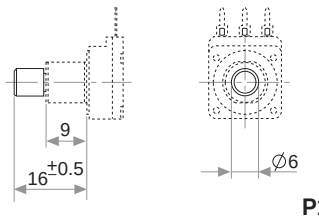

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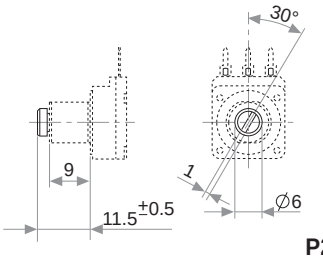
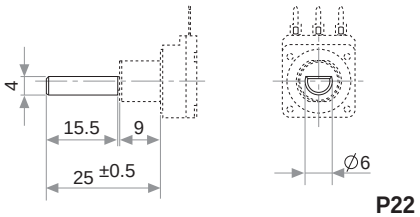


NOTE: Shaft position shown full CCW. Any other position for plastic shafts has to be shiftted n times 24° Other positions upon request.



P22

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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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 132-2-0-202 132-0-0-202 RK14K1220-F25-C0-A103 RK14K1220F25C0C104 RK14K1220-F25-C1-B103 14910FAGJSX10102KA 14910FBGLFY00103KA 14910AABHSX10103KA 14910FAGJSX10104KA 152-01031 C0342008 5K P270-109A J97589 23M728 248BBHS0XB25104MA RV170F-10-15R1-B500K-0021 RV8NAYSB104A 917523A A43-40 A43-750 A43S-5 A47-15K A4750K SPPG048S103U SPPG056P103U SWE-10