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## SINGLE-TURN ROTARY POTENTIOMETERS TYPE PR 16...

### Charakterystyka:

The PR 16... single-turn, housed in a metal case, rotary carbon control potentiometers. It comprises a carbon resistive track fitted on a resin modified paper base. Base diameter of potentiometers is 16 mm. Resistance track can be linear-A, logarithmic-B, inverse logarithmic-C or type of M+N. Potentiometers are made single or tandem, either with or without tap, plastic or metallic spindle. Terminals are designed for a PCB or soldering pins.

Potentiometers can be fit out on device hold up spindle in precise location 1, 11, or 41 position.

### Application:

Potentiometers are widely used in electronic audio-video, electric domestic equipment and outer control elements.

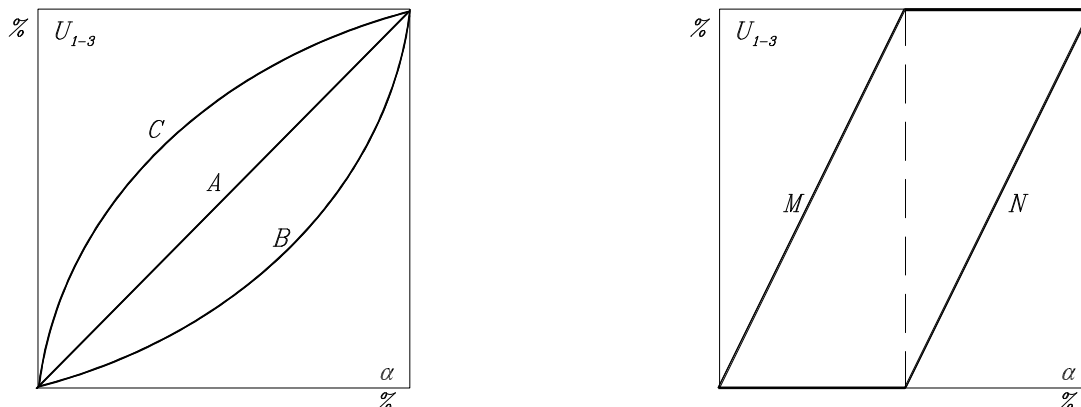
### Quick reference data:

**Table 1**

| Parameter  | Value   |
|--|---|
| Nominal Resistance $R_N$   | According E3 series (1 - 2,2 - 4,7 - 10 etc.)   |
| Resistance range: A (linear law) ( $\Omega$ )<br>B (logarithmic law) ( $\Omega$ )<br>C (revers logarithmic law) ( $\Omega$ )<br>M + N law ( $\Omega$ ) | 100 ÷ 2,2M<br>1k ÷ 1M<br>1k ÷ 1M<br>1k ÷ 10k  |
| Tolerance of resistance (%)  | $\pm 5\%$ for $R_N \leq 470k\Omega$ on request<br>$\pm 10\%$ for $R_N > 470k\Omega$ on request<br>$\pm 20\%$ for $R_N \leq 220k\Omega$<br>$\pm 30\%$ for $R_N > 220k\Omega$ |
| Maximum dissipation at $T_{amb} = 40^\circ C$ :<br>A law (W)<br>B law (W)<br>C law (W)<br>M + N law (W)  | 0.1<br>0.05<br>0.05<br>0.05   |
| Maximum working voltage:<br>A law (V)<br>B law (V)<br>C law (V)<br>M+N law (V)   | 160<br>160<br>160<br>160  |

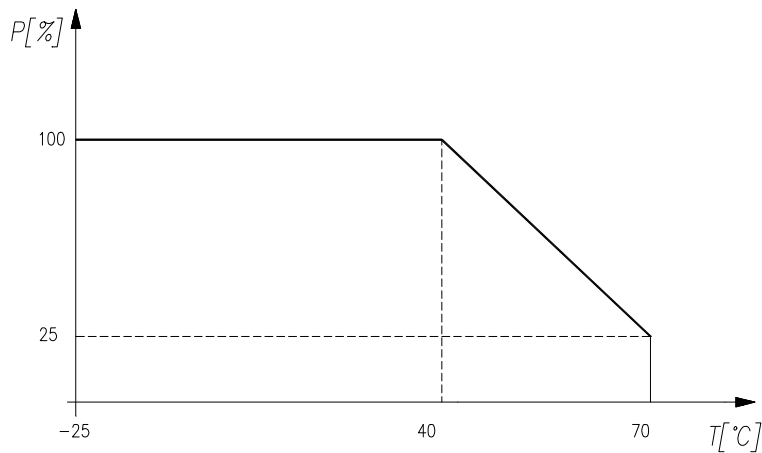
|   |  |  |
|---|--|--|
| Synchronous characteristics:<br>(only for tandem potentiometers G)<br>A law – for range 10 – 90% effective way<br>B law – for range 0 – 40 dB |  | $\leq 2\text{dB}$<br>$\leq 4\text{dB}$ |
| Insulation voltage (V <sub>DC</sub> )   |  | 240                                    |
| Total mechanical angle of rotation (°)  |  | 300±5                                  |
| Maximum dissipation in category temperature   |  | 25% P <sub>N</sub>                     |
| Climatic category   |  | 25/070/10                              |

**Resistance laws:**



**Fig. 1. Resistance laws: A - linear; B - logarithmic; C - reversed logarithmic; M+N.**

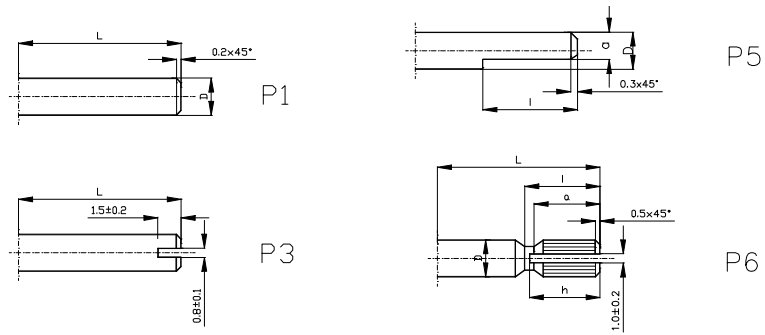
**Derating curve of potentiometers**



**Derating curve:** Potentiometers could dissipated from 100% of nominal power at ambient temperature  $\leq +40^{\circ}\text{C}$  up to 25% nominal power at ambient temperature  $+70^{\circ}\text{C}$ .

**Fig. 2. Derivative curve of potentiometers versus ambient temperature.**

# Spindle ends type of potentiometers series PR 16...



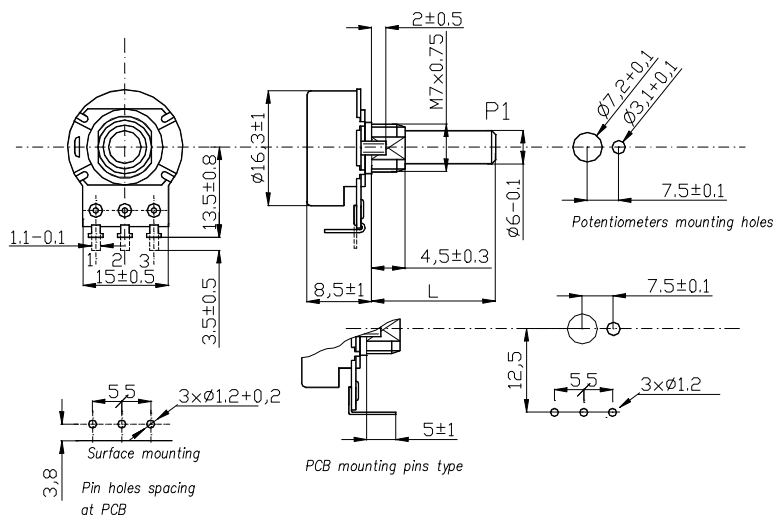
Rys.3 Typy zakończeń wałków strowniczych

**Fig.3 Spindle ends type of potentiometers**

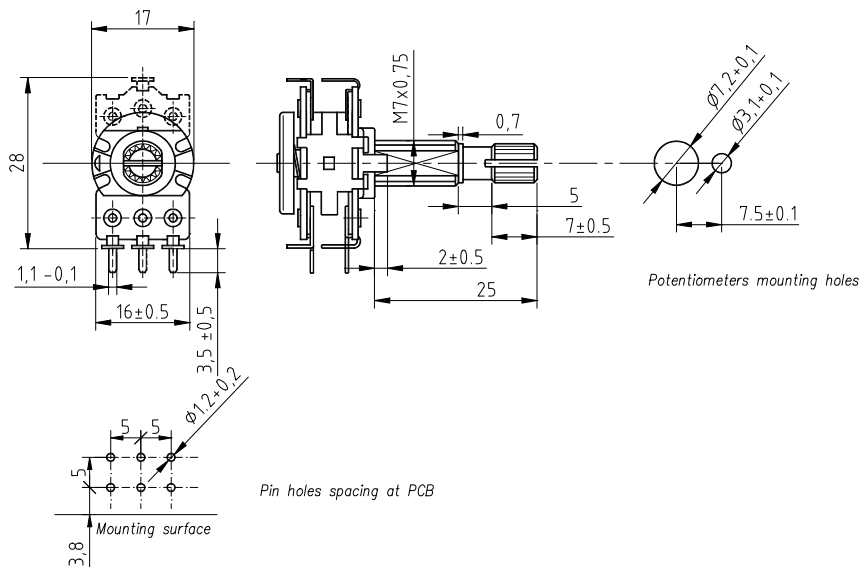
**Table 3**

| Indicating Of spindle ends | Dimensions (mm) |            |            |            |             |             |             |
|----------------------------|-----------------|------------|------------|------------|-------------|-------------|-------------|
|                            | Diameter D      | L/l/a/h    |            |            |             |             |             |
| P-1                        | 4               | 8/-/-/-    | 12/-/-/-   | 16/-/-/-   | 20/-/-/-    | 25/-/-/-    | 32/-/-/-    |
|                            | 6               |            |            |            |             |             |             |
| P-3                        | 4               | 8/-/-/-    | 12/-/-/-   | 16/-/-/-   | 20/-/-/-    | 25/-/-/-    | 32/-/-/-    |
|                            | 6               |            |            |            |             |             |             |
| P-5                        | 4               | -          | -          | 16/6/3,2/- | 20/10/3,2/- | 25/12/3,2/- | 32/12/3,2/- |
|                            | 6               | 16/8/4,5/- | 20/8/4,5/- | 16/6/4,5/- | 20/10/4,5/- | 25/12/4,5/- | 32/12/4,5/- |
| P-6                        | 6               | -          | -          | 16/-/6/7   | 20/-/10/11  | 25/-/12/13  | 32/-/12/13  |

## Outline view – dimensions of potentiometers:



**Fig. 4 Potentiometers PR 16..P1, PRP 16..P1 and PRPC 16..P1**



**Fig. 5 Potentiometers PR 16..G and PRP 16..G P6**

**Marking**

Marking on metal case: producer "TELPOD"; rated resistance; month and year of production.

**Ordering example:**

Please order by an example: We need potentiometer 16 mm; with tap; double 47kΩ; linear A low; diameter of spindle 6 mm, long of spindle 25 mm; end type of spindle P-6; for mounting on printed circuit board (PCB):

**Potentiometer PRPT 162G 47kΩ A 25 P6**

**Packing:**

The potentiometers can be supplied in bulk packing in a plastic bags and a carton box.

**Detailed information:**

|                |                    |                            |
|----------------|--------------------|----------------------------|
| - engineering: | Technical Division | phone: +48 (0)12 257 10 12 |
| - trade:       | Sale Division      | phone +48 (0)12 257 10 35  |
|                |                    | fax: +48 (0)12 257 10 13   |

**TELPOD S.A.**

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