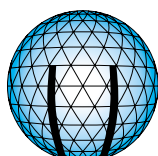




## ***PLK & PLR SERIES*** ***Professional keylock or rotary switches***

### ***NEW RANGE***

- Miniature & subminiature
- 2 to 12 positions
- 1 to 4 poles



**A P E M**

# PLK - PLR SERIES

## PROFESSIONAL KEYLOCK OR ROTARY SWITCHES

### Distinctive features

#### PLK SERIES - KEYLOCK SWITCHES

---

- Tapered lock face
- 2 or 3 positions
- Single or double pole
- Indexing : 90° (single pole) or 60° (double pole)
- Up to 200 different keys
- Double entry keys (can be inserted into the lock either way up)
- 5 disc lock type
- Miniature size, occupy small panel area
- Rear projection less than 30 mm from panel
- Easily assembled through front of panel
- Option : sealed terminals
- *Models with straight lock face available on request*



#### PLR SERIES - MINIATURE ROTARY SWITCHES

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- 2 to 12 positions
- 1 to 4 poles
- Indexing : 30° on standard models, 60° or 90° optional
- Models with continuous rotation
- Adjustable stop to restrict number of position
- Shorting (make before break) or non shorting (break before make) contacts
- Solder lugs or PCB pins
- Options available :
  - no bush version
  - rear drive version
  - sealed terminations

#### PLRT SERIES - SUBMINIATURE ROTARY SWITCHES

---

- Standard TO-5 housing
- 2 to 8 positions
- Single or double pole
- 45° indexing
- Continuous rotation available on 8-position models
- Actuator : spindle
- Option : protective cover
- *Models with screwdriver slot available on request*



**Dimensions** : First dimensions are in mm while inches are shown as bracketted numbers.

**Tolerance** : The general tolerance for dimensions in this brochure is +/- 0,3 (.012).

Dimensions, specifications and data shown in this brochure are subject to change without notice.

# PLK SERIES

## PROFESSIONAL KEYLOCK SWITCHES

### Tapered lock face

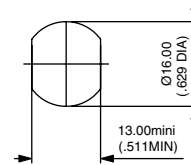
#### GENERAL SPECIFICATIONS

- Max. current/voltage rating (resistive) : 0,5A 30VDC
- Life : 10.000 cycles
- Initial contact resistance : 20 mΩ max.
- Insulation resistance : 100 MΩ min.
- Dielectric strength : 750 Vrms.
- Operating temperature : -20°C to +65°C
- Lock type : 5 disc
- Standard hardware supplied : 1 hex nut

#### MATERIALS

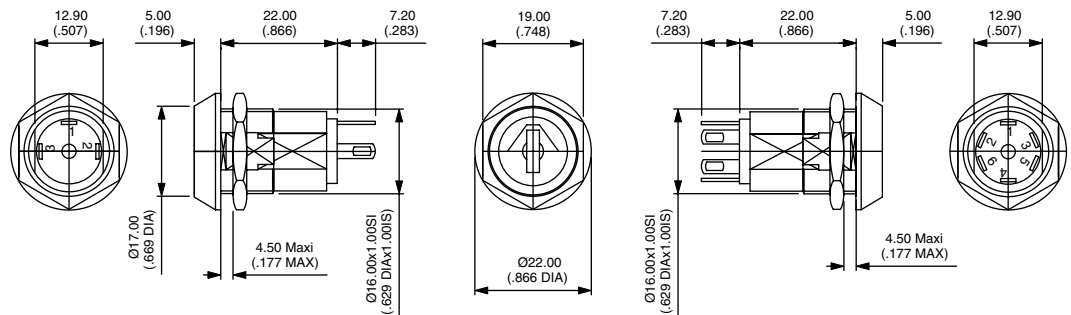
- Case : polyester, glass filled
- Bushing : zinc alloy, chrome plated
- Contacts : brass, silver plated

#### PANEL CUT-OUT



| Movement | Number of positions | Number of poles | Key withdrawal position | Indexing | Number of keys | Key sets      | MODEL NO | Switching diagram |
|----------|---------------------|-----------------|-------------------------|----------|----------------|---------------|----------|-------------------|
| 90°      | 2                   | 1               | 1-4                     | 90°      | 2              | same          | PLKB3220 |                   |
| 90°      | 2                   | 1               | 1-4                     | 90°      | 2              | 200 different | PLKB3221 |                   |
| 90°      | 2                   | 1               | 1                       | 90°      | 2              | same          | PLKB3120 |                   |
| 60°      | 2                   | 2               | 1-3                     | 60°      | 2              | same          | PLKB4220 |                   |
| 60°      | 2                   | 2               | 1                       | 60°      | 2              | same          | PLKB4120 |                   |
| 180°     | 3                   | 1               | 1-4-7                   | 90°      | 2              | 200 different | PLKB8321 |                   |

#### Dimensions



## PROFESSIONAL MINIATURE ROTARY SWITCHES

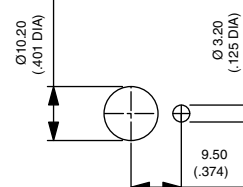
## GENERAL SPECIFICATIONS

- Max. voltage (resistive) : 250V AC/DC
- Max. current : 150mA
- Initial contact resistance : 20 mΩ max.
- Insulation resistance: 1.000 MΩ min.
- Dielectric strength : 1.000 Vrms
- Life : 10.000 cycles
- Operating torque : 8,6 Ncm ±2
- End stop torque : 1,13 Ncm min.
- Fixing torque : 1,1 Ncm max.
- Operating temperature : -30°C to +85°C
- Standard hardware supplied : 1 hex nut and 1 locking ring
- Special accessories (buttons) : see page 7

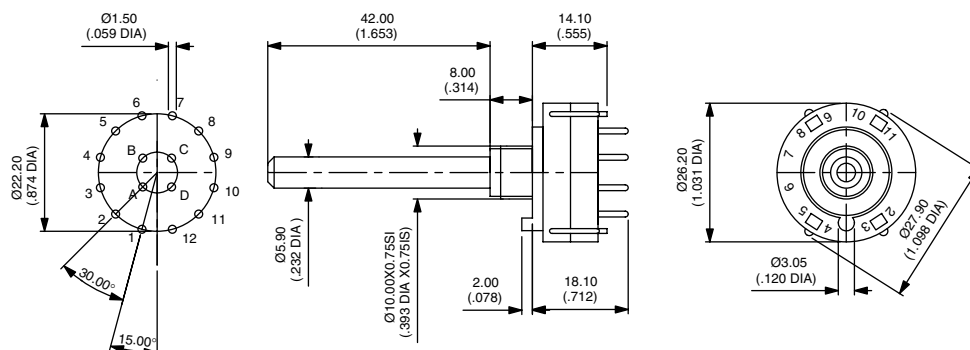
## MATERIALS

- Moulded parts : PA 6/6, glass filled
- Contacts : brass, gold or silver plated, depending on version

### PANEL CUT-OUT



## Dimensions



### Available configurations (top view)

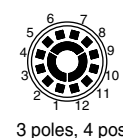
**30° INDEXING (standard)**  
(models listed opposite)



1 pole, 12 pos.



2 poles, 6 pos.

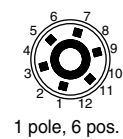


3 poles, 4 pos.



4 poles, 3 pos.

**60° INDEXING**  
(on request)



1 pole, 6 pos.



2 poles, 3 pos.

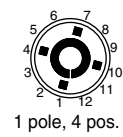


3 poles, 2 pos.

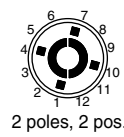


4 poles, 2 pos.

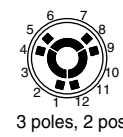
**90° INDEXING**  
(on request)



1 pole, 4 pos.



2 poles, 2 pos.



3 poles, 2 pos.

# PLR SERIES

## PROFESSIONAL MINIATURE ROTARY SWITCHES

### Models with 30° indexing

- Metric type
- Spindle diameter : 6 mm

- Spindle length : 42 mm
- Bushing : L 8 mm, M10 x 0,75

 Preferred

| DESCRIPTION                                      | Contact material | Shorting       | Non-shorting   |
|--------------------------------------------------|------------------|----------------|----------------|
| <b>1 pole, 12 positions</b>                      |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3259</b> | <b>PLR3249</b> |
|                                                  | Gold plated      | <b>PLR3728</b> | <b>PLR3723</b> |
| PCB pins                                         | Silver plated    | <b>PLR3279</b> | <b>PLR3269</b> |
|                                                  | Gold plated      | <b>PLR3732</b> | <b>PLR3726</b> |
| <b>1 pole, 12 positions, continuous rotation</b> |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3258</b> | <b>PLR3248</b> |
|                                                  | Gold plated      | <b>PLR3753</b> | <b>PLR3757</b> |
| PCB pins                                         | Silver plated    | <b>PLR3278</b> | <b>PLR3268</b> |
|                                                  | Gold plated      | <b>PLR3754</b> | <b>PLR3758</b> |
| <b>2 poles, 6 positions</b>                      |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3260</b> | <b>PLR3250</b> |
|                                                  | Gold plated      | <b>PLR3729</b> | <b>PLR3716</b> |
| PCB pins                                         | Silver plated    | <b>PLR3280</b> | <b>PLR3270</b> |
|                                                  | Gold plated      | <b>PLR3733</b> | <b>PLR3693</b> |
| <b>2 poles, 6 positions, continuous rotation</b> |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3334</b> | <b>PLR3338</b> |
|                                                  | Gold plated      | <b>PLR3755</b> | <b>PLR3759</b> |
| PCB pins                                         | Silver plated    | <b>PLR3339</b> | <b>PLR3333</b> |
|                                                  | Gold plated      | <b>PLR3756</b> | <b>PLR3760</b> |
| <b>3 poles, 4 positions</b>                      |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3261</b> | <b>PLR3251</b> |
|                                                  | Gold plated      | <b>PLR3730</b> | <b>PLR3734</b> |
| PCB pins                                         | Silver plated    | <b>PLR3281</b> | <b>PLR3271</b> |
|                                                  | Gold plated      | <b>PLR3734</b> | <b>PLR3720</b> |
| <b>4 poles, 3 positions</b>                      |                  |                |                |
| Solder lugs                                      | Silver plated    | <b>PLR3262</b> | <b>PLR3252</b> |
|                                                  | Gold plated      | <b>PLR3731</b> | <b>PLR3725</b> |
| PCB pins                                         | Silver plated    | <b>PLR3282</b> | <b>PLR3272</b> |
|                                                  | Gold plated      | <b>PLR3735</b> | <b>PLR3727</b> |

# PLRT SERIES

## PROFESSIONAL SUBMINIATURE ROTARY SWITCHES

### Spindle models

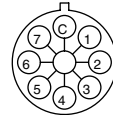
#### GENERAL SPECIFICATIONS

- Max. current/voltage rating (resistive) : 0,5A 24VAC - 0,2A 48VAC - 0,3A 30VDC
- Contact resistance :
  - initial : 50 mΩ max.
  - after 10.000 cycles : 100mΩ max
- Insulation resistance : 1.000 MΩ min at 500VDC
- Dielectric strength : 1.000 Vrms
- Life : 10.000 cycles
- Operating torque : 1,4 to 2,8 Ncm
- Operating temperature : -30°C to +65°C
- Accessory (protective cover) : see page 7.

#### MATERIALS

- Case : polyester, glass filled
- Contacts : brass, gold plated
- Terminals : copper alloy, gold plated

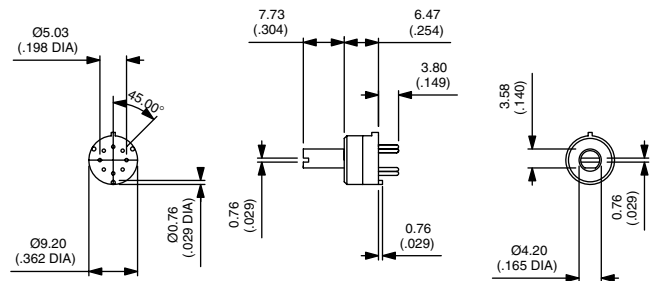
#### DIAGRAM



#### Model numbers and dimensions



| Movement | Number of positions  | MODEL NO |
|----------|----------------------|----------|
| 360°     | 8<br>Continuous rot. | PLRT842  |
| 90°      | 3                    | PLRT331  |
| 135°     | 4                    | PLRT431  |
| 180°     | 5                    | PLRT531  |
| 315°     | 8                    | PLRT833  |



# ACCESSORIES

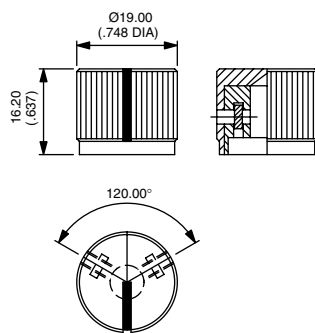
## For PLR and PLRT series

### Straight knurl knob for PLR series



Natural anodized aluminium  
**U6107**

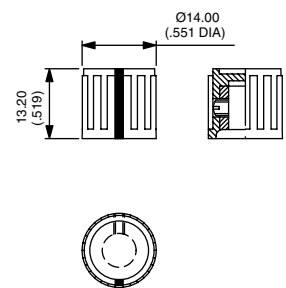
Black anodized aluminium  
**U6106**



### Ribbed knob for PLR series



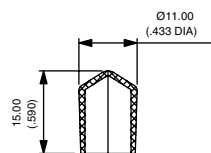
Black plastic  
**U6108**



### Protective cover for PLRT series



**U6105**





# The APEM subminiature range



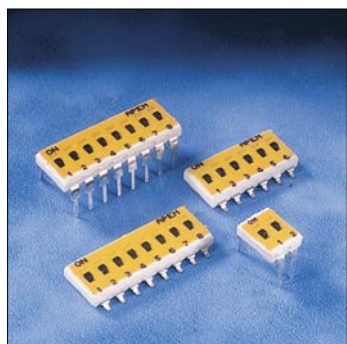
**Z series**



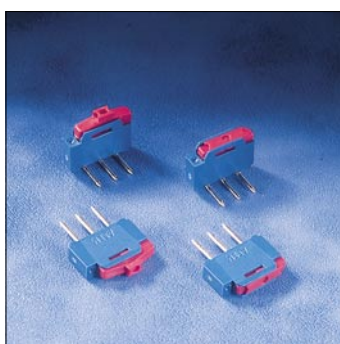
**T series**



**SMT T series**



**IK series**



**NK series**



**PHAP series**



**CR65 series**

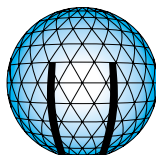


**9000 series**

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**A P E M**

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