

# A02 series

## Keylock & selector switches

Distinctive features and specifications

A028\_AX1607US



- ☐ Panel Sealed to IP65
- ☐ Single pole to four pole
- ☐ Custom engraving & overmould key
- ☐ Captive screw & push on tab terminals
- ☐ 12A 250VAC

### ELECTRICAL SPECIFICATIONS

- **Current/Voltage Rating** : 25mA 5VAC Min, 12A 250VAC, 16A 250VAC max  
12A 12VDC max
- **Initial Contact Resistance** : 10mΩ max at 1A 4VDC
- **Insulation Resistance** : 50MΩ min
- **Dielectric Strength** : 2KV between open contacts, 4KV live to accessible
- **Electrical Life** : 50,000 cycles min
- **Contact Gap** : Double break 2 x 1,5mm (0.059)
- **Insulation** : Class 2

### MECHANICAL SPECIFICATIONS

- **Mechanical Life (operator)** : Momentary, 1 million cycles, maintained 100,000 cycles
- **Lamp** : Midget groove T1 ¾ filament, neon or LED
- **Terminals** : M3 captive screw and push on tab terminal

### GENERAL SPECIFICATIONS

- **Operating Temperature** : -20°C to +85°C
- **Sealing** : Panel sealed to IP65, rear of panel IP40

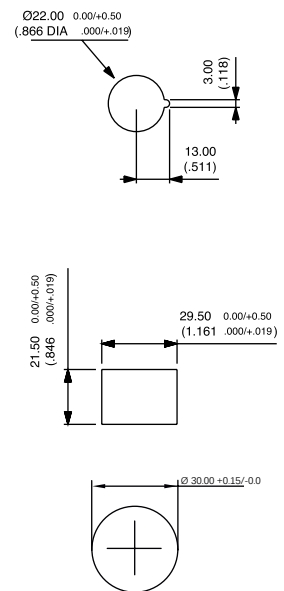
### AGENCY APPROVALS



### MATERIALS

- **Key** : Nickel plated steel
- **Key Barrel** : Chrome plated alloy
- **Optional Metal Bezel** : Nickel plated brass
- **Operator** : PBT
- **Nut** : ABS
- **Camtrack Momentary** : PPE
- **Camtrack Maintained** : PPSU
- **Switch Block 1 & 2 Pole** : PBT
- **Switch Block 3 & 4 Pole** : PEI
- **Contacts** : Gold plated silver

### PANEL CUT OUT



Dimensions : first dimensions are in mm while inches are shown in brackets.  
Refer to the following pages for further information.



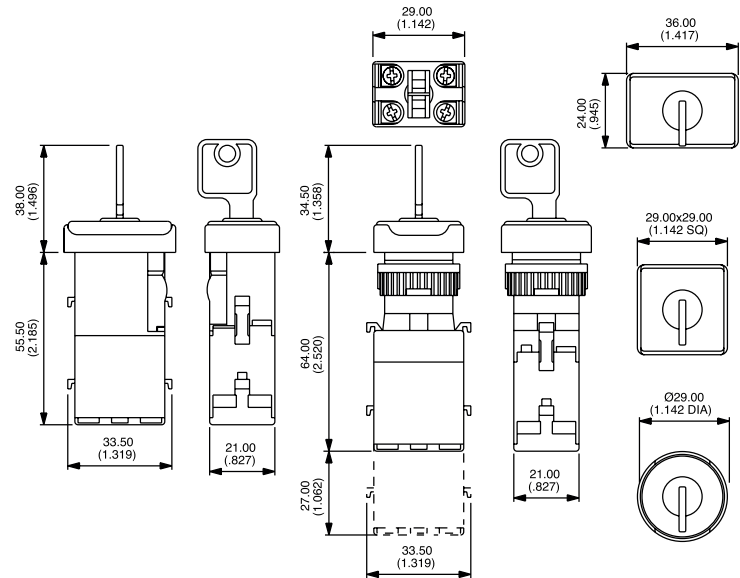
Mounting accessories : standard hardware 1 nut and 1 sealing washer.

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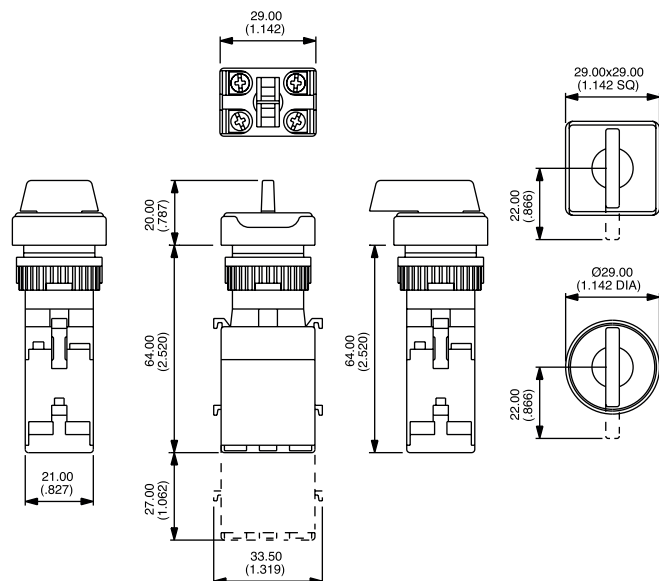
## Keylock & selector switches

Panel cut-out  $\varnothing 22\text{mm}$  (0.866) or 29.5 (1.161) x 21.5 (0.846)mm

### Keylock



### Selector



# A02 series

## Keylock & selector switches

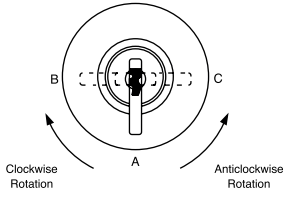
### Overview

## Keylock

| Operator                                                                        |                    | + Switch block |                            |               |         |
|---------------------------------------------------------------------------------|--------------------|----------------|----------------------------|---------------|---------|
| Bezel                                                                           | Description        | Part No.       | Key removable in positions | Contacts      | Part No |
|  | 2 pos. maintained  | A028101        | A-C                        | 1 N.O.        | A02501  |
|  | 2 pos. momentary   | A028102        | A                          | 1 N.C.        | A02502  |
|  | 3 pos. maintained  | A028105        | A-B-C                      | 2 N.O.        | A02503  |
|  | 3 pos. momentary   | A028106        | A                          | 2 N.C.        | A02504  |
|  | 3 pos. mainL, momR | A028107        | A                          | 1 N.O./1 N.C. | A02505  |
|  | 3 pos. momL, mainR | A028108        | A-B                        |               |         |
|  | 2 pos. maintained  | A028201        | A-C                        |               |         |
|  | 2 pos. momentary   | A028202        | A                          |               |         |
|  | 3 pos. maintained  | A028205        | A-B-C                      |               |         |
|  | 3 pos. momentary   | A028206        | A                          |               |         |
|  | 3 pos. mainL, momR | A028207        | A-B                        |               |         |
|  | 3 pos. momL, mainR | A028208        | A-C                        |               |         |
|  | 2 pos. maintained  | A028301        | A-C                        | 1 N.O.        | A02506  |
|  | 2 pos. momentary   | A028302        | A                          | 1 N.C.        | A02507  |
|  | 3 pos. maintained  | A028305        | A-B-C                      | 2 N.O.        | A02508  |
|  | 3 pos. momentary   | A028306        | A                          | 2 N.C.        | A02509  |
|  | 3 pos. mainL, momR | A028307        | A-B                        | 1 N.O./1 N.C. | A02510  |
|  | 3 pos. momL, mainR | A028308        | A-C                        |               |         |

To specify flush mounting (30mmØ) option:  
add 'FM' to the end of the part number:  
Example: A028301FM (round operator only)

Bezel:  rectangular  square  round. 'pos' - position, 'mainL' - maintained left 'momR' - momentary right, etc



**Key Rotation – 2 position switches**

The model numbers shown are for switches with anticlockwise lever rotation.

For clockwise rotation, replace:

|    |      |    |
|----|------|----|
| 01 | with | 20 |
| 02 | with | 19 |

at the end of the model number

- 2 standard keys are supplied
- 20 key barrel types available from stock
- Non-removable key positions: contact APEM components

**Second switch block**

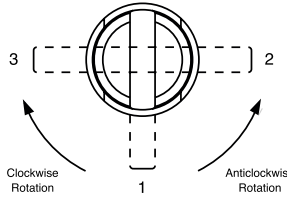
To achieve 3 or 4 pole switching, add second switch block from above table.

## Selector

| Operator                                                                          |                    | + Switch block |            |               |         |
|-----------------------------------------------------------------------------------|--------------------|----------------|------------|---------------|---------|
| Bezel                                                                             | Description        | Short lever    | Long lever | Contacts      | Part No |
|  | 2 pos. maintained  | A029201        | A029101    | 1 N.O.        | A02501  |
|  | 2 pos. momentary   | A029202        | A029102    | 1 N.C.        | A02502  |
|  | 3 pos. maintained  | A029203        | A029103    | 2 N.O.        | A02503  |
|  | 3 pos. momentary   | A029204        | A029104    | 2 N.C.        | A02504  |
|  | 3 pos. mainL, momR | A029205        | A029105    | 1 N.O./1 N.C. | A02505  |
|  | 3 pos. momL, mainR | A029206        | A029106    |               |         |
|  | 2 pos. maintained  | A029401        | A029301    |               |         |
|  | 2 pos. momentary   | A029402        | A029302    |               |         |
|  | 3 pos. maintained  | A029403        | A029303    |               |         |
|  | 3 pos. momentary   | A029404        | A029304    |               |         |
|  | 3 pos. mainL, momR | A029405        | A029305    |               |         |
|  | 3 pos. momL, mainR | A029406        | A029306    |               |         |

To specify flush mounting (30mmØ) option:  
add 'FM' to the end of the part number:  
Example: A029401FM (round operators only)

Bezel:  square  round



**Lever Rotation – 2 position switches**

The model numbers shown are for switches with anticlockwise lever rotation.

For clockwise rotation, replace:

|    |      |    |
|----|------|----|
| 01 | with | 07 |
| 02 | with | 08 |

at the end of the model number

Optional engraving on lever end add "WL" to the end of the part number.

**Second switch block**

To achieve 3 or 4 pole switching, add second switch block from above table.



Unsealed switches & indicators (IP40) suffix 01 to the end of the part number.  
Screen engraving insertable legends, & bi-color LED's please contact APEM  
For 6.35mm push on tab terminals suffix the switch block part number with SP

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Installation & tools

### Installation guide

**SWITCH BLOCK ASSEMBLY**

The switch block snaps onto the adaptor block, to remove, lever out the latches using a small screwdriver taking care not to overbend, pull off the block from the adaptor block.

**PANEL MOUNTING ASSEMBLY**

- Drill/punch hole shaped as shown on page one.
- Assemble front operator through hole and
  - a) Round & square types, tighten nut to a maximum torque of 0.8Nm using tool no. 30-0001. Snap on the adaptor block fit fixing nut and tighten to a maximum
  - b) Rectangular types, tighten the two panel fixing screws in the front to a maximum torque of 6cNm
- Wire chosen switch block as required and snap onto back of operator with optional end cap
- Fit bulb if required using tool No. 30-0002.
- Snap screen onto reflector assembly with legend in between if required and snap onto front operator, take care to line up the locating slot with the polarising dot and not to damage the internal seal
- To place/remove the bulb use the bulb extractor 30-0002.

### Tools

Nut fixing key

30-0001

Bulb remover

30-0002

### Accessories

Switch block end cap, terminal guard

14-0005



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.