# A01 series

## Keylock & selector switches

### Distinctive features and specifications

A018_AX1607US

- ❑ Panel Sealed to IP65
- ❑ Single pole to four pole changeover
- ❑ Custom engraving & overmould key
- ❑ Push on tab terminals
- ❑ 6A 250VAC

### ELECTRICAL SPECIFICATIONS

- **Current/Voltage Rating :** 10mA 5VAC min, 6A 250VAC, 6A 12VDC
- **Initial Contact Resistance :** 10mΩ max at 1Amp 4VDC
- **Insulation Resistance :** 50MΩ min
- **Dielectric Strength :** 750V between open contacts, 5KV live to accessible
- **Electrical Life :** 50,000 cycles min
- **Contact Gap :** >1mm (0.039)
- **Insulation :** Class 2

### MECHANICAL SPECIFICATIONS

- **Mechanical Life (operator) :** Momentary, 1 million cycles, maintained 100,000 cycles
- **Lamp :** Midget grove T1 ¾ filament, neon or LED
- **Terminals :** Solder/quick connect 2.8mm (0.110)

### GENERAL SPECIFICATIONS

- **Operating Temperature :** -20°C to +55°C
- **Solder Heat Resistance :** 350°C for 5 seconds
- **Sealing :** Panel sealed to IP65, rear of panel IP40

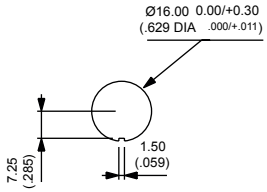
### AGENCY APPROVALS

### MATERIALS

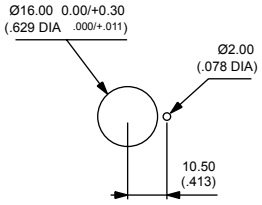
- **Key :** Nickel plated steel
- **Key Barrel :** Chrome plated alloy
- **Operator :** PBT
- **Nut :** ABS
- **Camtrack Momentary :** PPE
- **Camtrack Maintained :** PPSU
- **Switch Block 1 & 2 pole :** PBT
- **Switch Block 3 & 4 pole :** PEI
- **Contacts :** Gold plated silver

### PANEL CUT OUT

Round & Square bezel operators only




Rectangular bezel operators only




Max panel thickness 8mm (0.314)

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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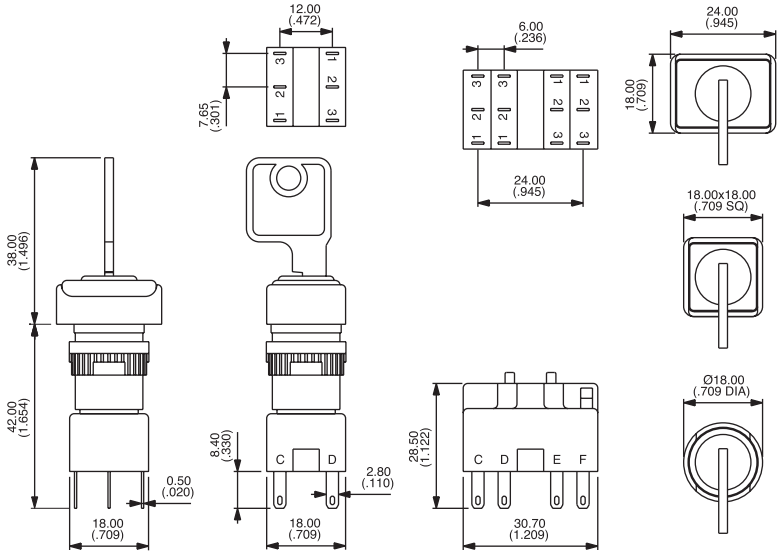
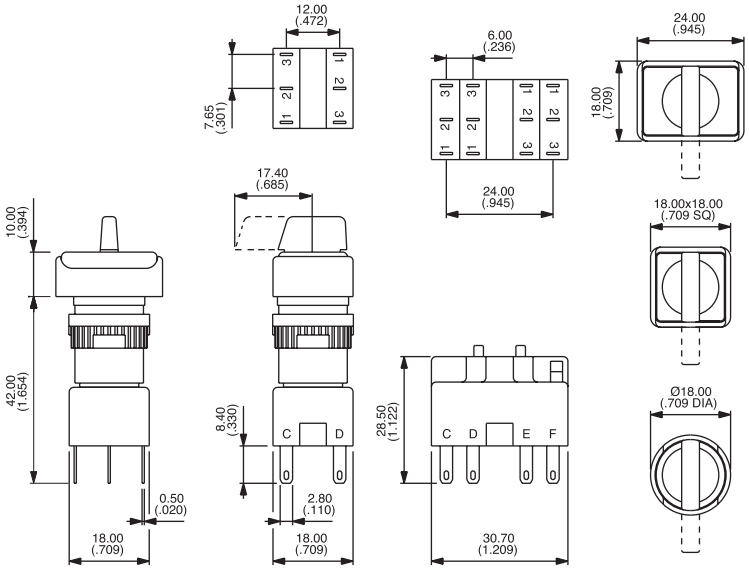
Panel cut-out Ø16 (0.755)

### Keylock




### Selector

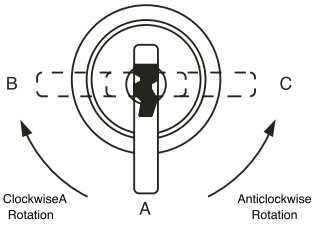


## Keylock

| Operator | | | | | + Switch block | |
|---|---|---|---|---|---|---|
| Pole | Bezel | Description | Part No. | Key removable | No of poles | Part No |
| 1 or 2 | ▭ | 2 pos. maintained | A018101 | A-C | Single pole | A0151B |
| 1 or 2 | ▭ | 2 pos. momentary | A018102 | A | Double pole | A0152B |
| 3 or 4 | ▭ | 2 pos. maintained | A018103 | A-C | Three pole | A0155B |
| 3 or 4 | ▭ | 2 pos. momentary | A018104 | A | Four pole | A0153B |
| 1 or 2 | ▭ | 3 pos. maintained | A018105 | A-B-C | | |
| 1 or 2 | ▭ | 3 pos. momentary | A018106 | A | | |
| 1 or 2 | ▭ | 3 pos. mainL, momR | A018107 | A-B | | |
| 1 or 2 | ▭ | 3 pos. momL, mainR | A018108 | A-C | | |
| 1 or 2 | □ | 2 pos. maintained | A018201 | A-C | | |
| 1 or 2 | □ | 2 pos. momentary | A018202 | A | | |
| 3 or 4 | □ | 2 pos. maintained | A018203 | A-C | | |
| 3 or 4 | □ | 2 pos. momentary | A018204 | A | | |
| 1 or 2 | □ | 3 pos. maintained | A018205 | A-B-C | | |
| 1 or 2 | □ | 3 pos. momentary | A018206 | A | | |
| 1 or 2 | □ | 3 pos. mainL, momR | A018207 | A-B | | |
| 1 or 2 | □ | 3 pos. momL, mainR | A018208 | A-C | | |
| 1 or 2 | ○ | 2 pos. maintained | A018301 | A-C | | |
| 1 or 2 | ○ | 2 pos. momentary | A018302 | A | | |
| 3 or 4 | ○ | 2 pos. maintained | A018303 | A-C | | |
| 3 or 4 | ○ | 2 pos. momentary | A018304 | A | | |
| 1 or 2 | ○ | 3 pos. maintained | A018305 | A-B-C | | |
| 1 or 2 | ○ | 3 pos. momentary | A018306 | A | | |
| 1 or 2 | ○ | 3 pos. mainL, momR | A018307 | A-B | | |
| 1 or 2 | ○ | 3 pos. momL, mainR | A018308 | A-C | | |

- **Non-removable key positions: contact APEM components**
- **2 standard keys are supplied**
- **20 key barrel types available from stock**
- **For on-on-on function contact APEM components**
- **Note: 3/4 pole switch block for use only with 2 position key switches**

Key position




**Key Rotation – 2 position switches**

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

For clockwise rotation, replace:

| | | |
|---|---|---|
| 01 | with | 25 |
| 02 | with | 24 |
| 03 | with | 27 |
| 04 | with | 28 |

at the end of the model number

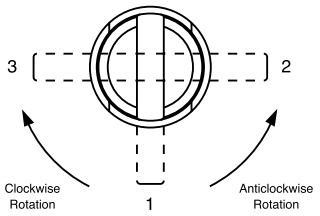
Bezel: ▭ rectangular □ square ○ round. 'pos' - position, 'mainL' - maintained left 'momR' - momentary right, etc

## Selector

| Operator | | | | + | Switch block | |
|---|---|---|---|---|---|---|
| Pole | Bezel | Description | Short lever | Long lever | No of poles | Part No |
| 1 or 2 | ▭ | 2 pos. maintained | A019201 | A019101 | Single pole | A0151B |
| 1 or 2 | ▭ | 2 pos. momentary | A019202 | A019102 | Double pole | A0152B |
| 3 or 4 | ▭ | 2 pos. maintained | A019203 | A019103 | Three pole | A0155B |
| 3 or 4 | ▭ | 2 pos. momentary | A019204 | A019104 | Four pole | A0153B |
| 1 or 2 | ▭ | 3 pos. maintained | A019205 | A019105 | | |
| 1 or 2 | ▭ | 3 pos. momentary | A019206 | A019106 | | |
| 1 or 2 | ▭ | 3 pos. mainL, momR | A019207 | A019107 | | |
| 1 or 2 | ▭ | 3 pos. momL, mainR | A019208 | A019108 | | |
| 1 or 2 | □ | 2 pos. maintained | A019401 | A019301 | | |
| 1 or 2 | □ | 2 pos. momentary | A019402 | A019302 | | |
| 3 or 4 | □ | 2 pos. maintained | A019403 | A019303 | | |
| 3 or 4 | □ | 2 pos. momentary | A019404 | A019304 | | |
| 1 or 2 | □ | 3 pos. maintained | A019405 | A019305 | | |
| 1 or 2 | □ | 3 pos. momentary | A019406 | A019306 | | |
| 1 or 2 | □ | 3 pos. mainL, momR | A019407 | A019307 | | |
| 1 or 2 | □ | 3 pos. momL, mainR | A019408 | A019308 | | |
| 1 or 2 | ○ | 2 pos. maintained | A019601 | A019501 | | |
| 1 or 2 | ○ | 2 pos. momentary | A019602 | A019502 | | |
| 3 or 4 | ○ | 2 pos. maintained | A019603 | A019503 | | |
| 3 or 4 | ○ | 2 pos. momentary | A019604 | A019504 | | |
| 1 or 2 | ○ | 3 pos. maintained | A019605 | A019505 | | |
| 1 or 2 | ○ | 3 pos. momentary | A019606 | A019506 | | |
| 1 or 2 | ○ | 3 pos. mainL, momR | A019607 | A019507 | | |
| 1 or 2 | ○ | 3 pos. momL, mainR | A019608 | A019508 | | |

- **Note: 3/4 pole switch block for use only with 2 position rotary lever**

Lever position




**Lever Rotation – 2 position switches**

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

For clockwise rotation, replace:

| | | |
|---|---|---|
| 01 | with | 09 |
| 02 | with | 10 |
| 03 | with | 11 |
| 04 | with | 12 |

at the end of the model number

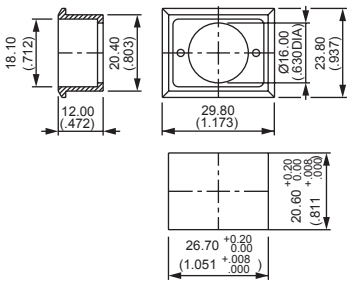
Optional engraving on lever end add "WL" to the end of the part number.

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

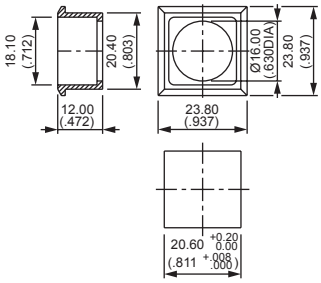
⚠ Unsealed switches & indicators (IP40) suffix 01 to the end of the part number.
Screen engraving insertable legends, & bi-color LED's please contact APEM

## Flush mount bezels

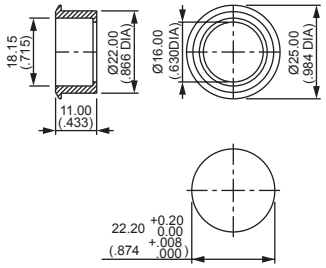
Dark grey plastic material – supplied with sealing washer




Rectangular : A01FM1

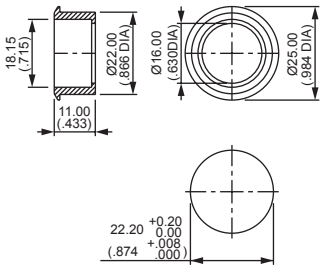



Square : A01FM

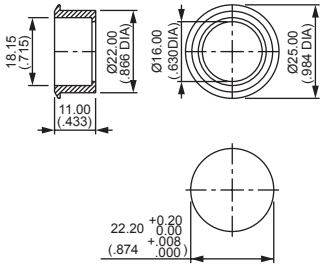



Round : A01FM2

Anodised aluminium/matt black



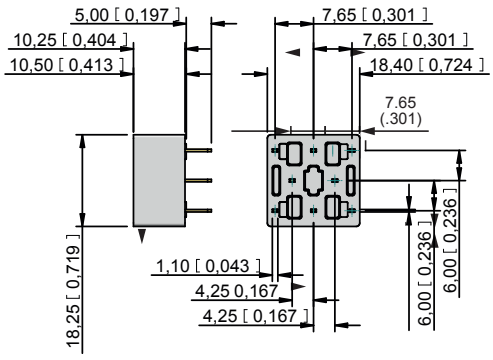

Round natural anodised : A01FMM




Round matt black : A01FMMG

## PCB Sockets

| Number of Poles | Part No. |
|---|---|
| Single pole, non illuminated : | A01PC1 |
| Double pole, non illuminated : | A01PC2 |
| Single pole, illuminated : | A01PC3 |
| Double pole, illuminated : | A01PC4 |
| Indicator : | A01PC5 |




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

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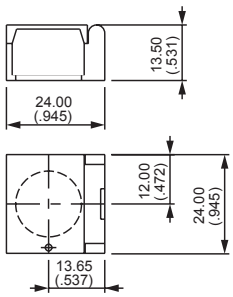
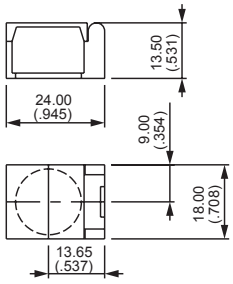
### Accessories

## Flap guards

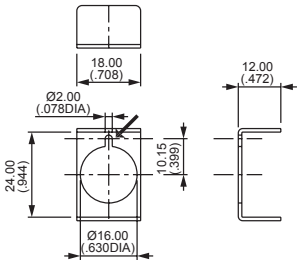



To fit rectangular bezel : A01FG1

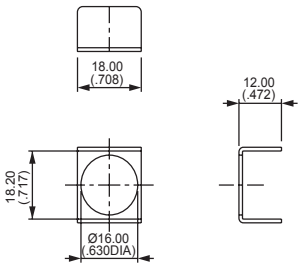



To fit round & Square bezel: A01FM2

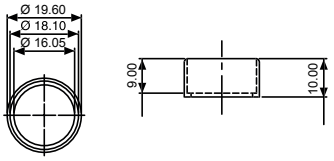
## Alluminium bezel protection guards




Rectangular : A01MG1

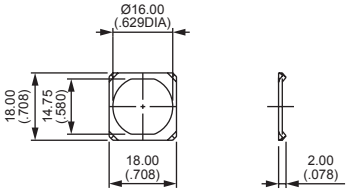



Square : A01MG



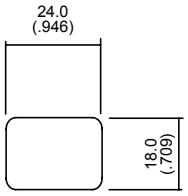

Round natural anodised: A01MG2
Matt black : A01MG2G

## Anti rotation ring

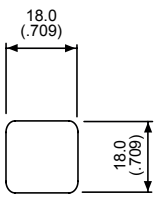



A01LW

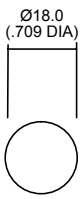
## Blanking plugs




Rectangular : A0131

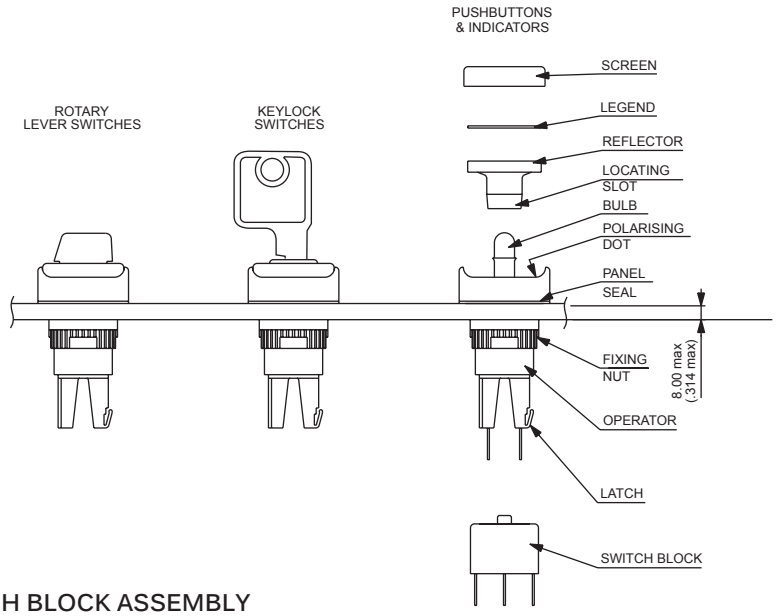



Square : A0132




Round : A0133

## Installation guide




### PANEL MOUNTING ASSEMBLY

- Drill/punch hole shaped as shown on page one.
- Assemble front operator through hole, fit fixing nut and tighten to a maximum torque of 0.8Nm using tool No. 30-0001.
- Wire chosen switch block as required and slide onto operator until latch engages.
- 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.

### SWITCH BLOCK ASSEMBLY

To assemble switch block to the operator, firstly, take care to line up the switch block with the back of the operator. Once in position slide on to the back of the operator. N.B. Ensure latch is fully engaged correctly onto the switch block. To remove switch block, depress the latch and slide the switch block off the operator.

## Tools

Nut fixing key

30-0001

Bulb remover

30-0002