

# A02 series

## Illuminated or non-illuminated pushbutton switches

Panel cut-out Ø 22 (.866) or 29,5 x 21,5 (1.160x.846)

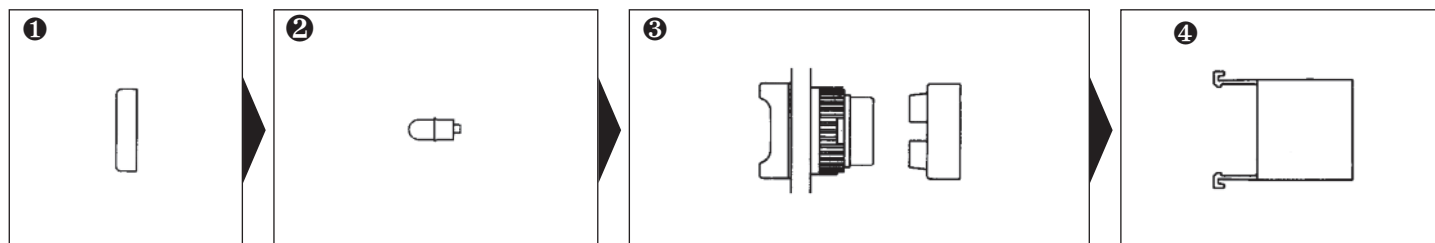
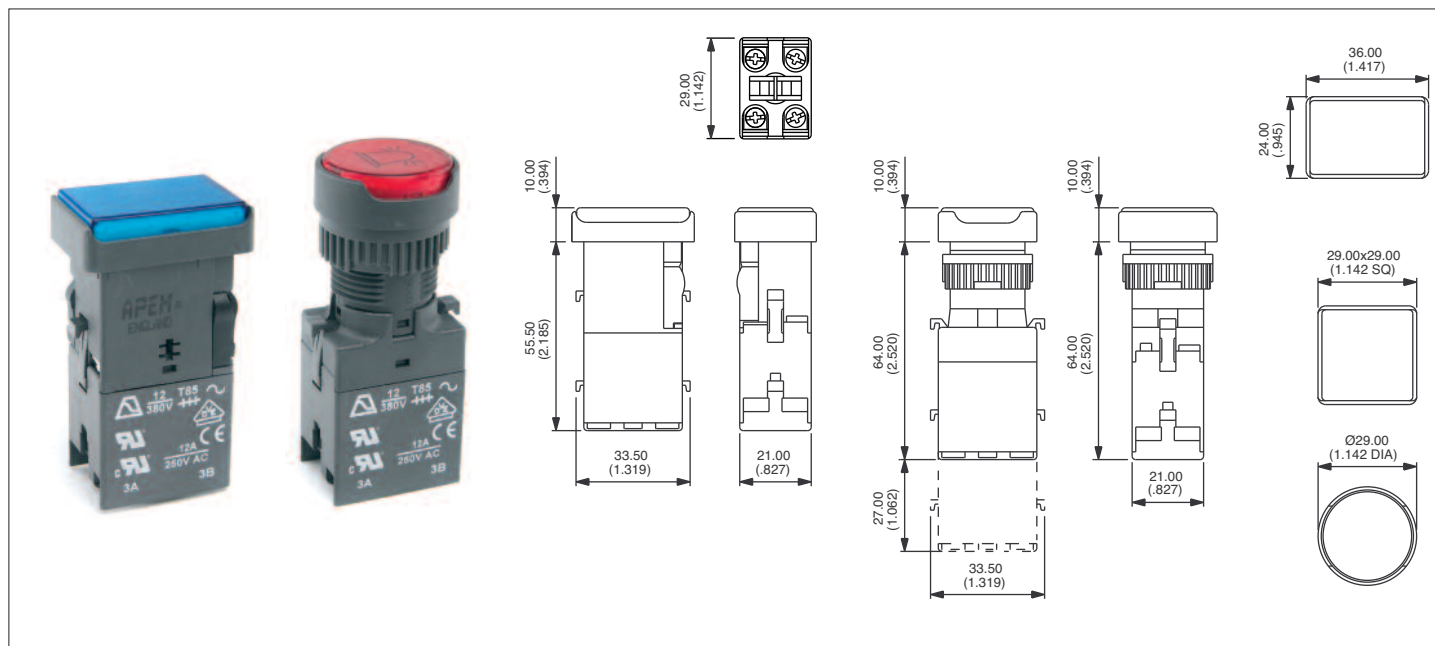
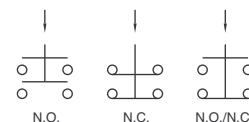
### A pushbutton assembly requires :

screen + lamp (if illuminated) + operator + one or two switch blocks.

To order these elements, select desired model numbers from tables below.

**Example :** IP65 illuminated rectangular maintained pushbutton, switch block with 2 N.O. contacts, red screen and 12V red LED assembly = A0261B, A0242J1, A0201X and A02503UL.

### UG1212A-R1



### Screen

| Bezel | Colour | Part No |
|-------|--------|---------|
|       | black  | A0261A  |
|       | red    | A0261B  |
|       | amber  | A0261C  |
|       | yellow | A0261D  |
|       | green  | A0261E  |
|       | blue   | A0261F  |
|       | clear  | A0261G  |
|       | white  | A0261J  |
|       | black  | A0262A  |
|       | red    | A0262B  |
|       | amber  | A0262C  |
|       | yellow | A0262D  |
|       | green  | A0262E  |
|       | blue   | A0262F  |
|       | clear  | A0262G  |
|       | white  | A0262J  |
|       | black  | A0263A  |
|       | red    | A0263B  |
|       | amber  | A0263C  |
|       | yellow | A0263D  |
|       | green  | A0263E  |
|       | blue   | A0263F  |
|       | clear  | A0263G  |
|       | white  | A0263J  |

### Lamp

| Lamp                       | Voltage                             | Part No |
|----------------------------|-------------------------------------|---------|
| Filament                   | 6.3V                                | A0141A  |
| Filament                   | 14V                                 | A0141B  |
| Filament                   | 28V                                 | A0141C  |
| Filament                   | 36V                                 | A0141D  |
| Filament                   | 48V                                 | A0141E  |
| Filament                   | 60V                                 | A0141F  |
| Neon                       | 110V                                | A0143G  |
| Neon                       | 220V                                | A0143H  |
| LED                        | model numbers: see A01 pages G6-G7. |         |
| LED assy                   | 6V                                  | A0242H* |
| LED assy                   | 12V                                 | A0242J* |
| LED assy                   | 24V                                 | A0242K* |
| LED assy                   | 6V                                  | A0243H* |
| LED assy                   | 12V                                 | A0243J* |
| LED assy                   | 24V                                 | A0243K* |
| LED assy                   | 6V                                  | A0244H* |
| LED assy                   | 12V                                 | A0244J* |
| LED assy                   | 24V                                 | A0244K* |
| Replace * with colour code |                                     |         |
| for LED assemblies:        |                                     |         |
|                            | 1: red                              |         |
|                            | 2: green                            |         |
|                            | 3: amber                            |         |

### Operator

| Bezel | Description           | Lamp type | Part No |
|-------|-----------------------|-----------|---------|
|       | Illum, momentary      | Lamp/LED  | A0201Y  |
|       | Illum, maintained     | Lamp/LED  | A0201X  |
|       | Illum, momentary      | LED assy  | A0202Y  |
|       | Illum, maintained     | LED assy  | A0202X  |
|       | Non-illum, maintained |           | A0203X  |
|       | Non-illum, momentary  |           | A0203Y  |
|       | Illum, momentary      | Lamp/LED  | A0204Y  |
|       | Illum, maintained     | Lamp/LED  | A0204X  |
|       | Illum, momentary      | LED assy  | A0205Y  |
|       | Illum, maintained     | LED assy  | A0205X  |
|       | Non-illum, momentary  |           | A0206Y  |
|       | Non-illum, maintained |           | A0206X  |
|       | Illum, momentary      | Lamp/LED  | A0207Y  |
|       | Illum, maintained     | Lamp/LED  | A0207X  |
|       | Illum, momentary      | LED assy  | A0208Y  |
|       | Illum, maintained     | LED assy  | A0208X  |
|       | Non-illum, momentary  |           | A0209Y  |
|       | Non-illum, maintained |           | A0209X  |

### Switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

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

White or blue LED assembly : contact APEM.

**UNSEALED SWITCHES (IP40) :**

add "01" to end of operator model number.

**SCREEN ENGRAVING / INSERTABLE LEGENDS :** contact APEM.

Bezel: rectangular, square, round, 'Illum' - illuminated, 'Non-illum' - non illuminated

# A02 series

## Metal bezel pushbutton switches and indicators

Panel cut-out Ø 22 (.866)

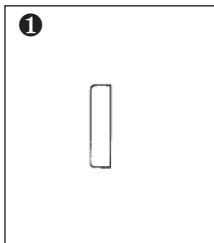
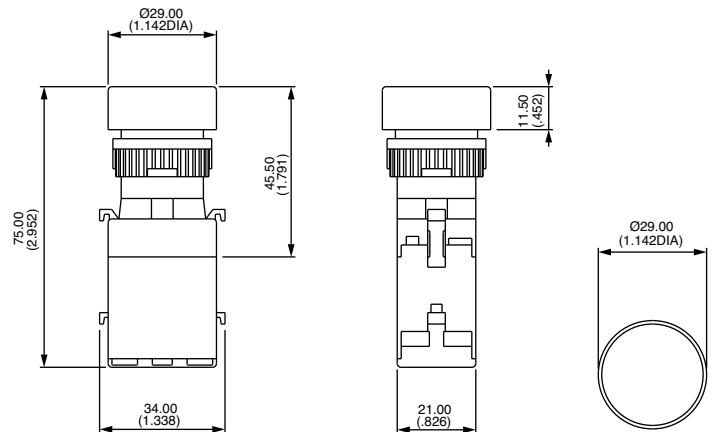
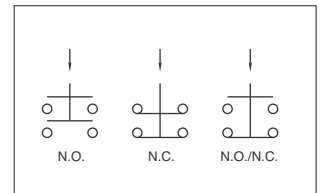
### A pushbutton assembly requires :

screen + lamp (if illuminated) + operator + one or two switch blocks.

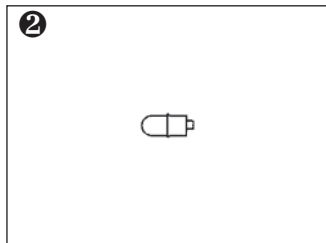
### An indicator assembly requires : screen + lamp + operator

To order these elements, select desired model numbers from tables below.

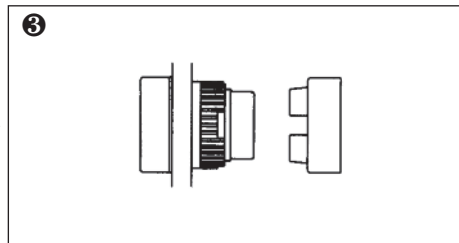
**Example :** IP65 illuminated metal bezel maintained pushbutton, switch block with 2 N.O. contacts, red screen and 12V red LED assembly = A0263B, A0244J1, A0211X and A02503UL.



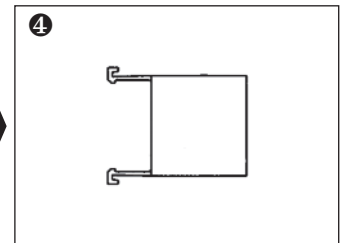
**Screen**



**Lamp**



**Operator**



**Switch block**

| Bezel | Colour | Part No | Lamp                       | Voltage                             | Part No |
|-------|--------|---------|----------------------------|-------------------------------------|---------|
| ○     | black  | A0263A  | Filament                   | 6.3V                                | A0141A  |
| ○     | red    | A0263B  | Filament                   | 14V                                 | A0141B  |
| ○     | amber  | A0263C  | Filament                   | 28V                                 | A0141C  |
| ○     | yellow | A0263D  | Filament                   | 36V                                 | A0141D  |
| ○     | green  | A0263E  | Filament                   | 48V                                 | A0141E  |
| ○     | blue   | A0263F  | Filament                   | 60V                                 | A0141F  |
| ○     | clear  | A0263G  | Neon                       | 110V                                | A0143G  |
| ○     | white  | A0263J  | Neon                       | 220V                                | A0143H  |
|       |        |         | LED                        | model numbers: see A01 pages G6-G7. |         |
|       |        |         | LED assy                   | ○ 6V                                | A0244H* |
|       |        |         | LED assy                   | ○ 12V                               | A0244J* |
|       |        |         | LED assy                   | ○ 24V                               | A0244K* |
|       |        |         | Replace * with colour code | 1: red                              |         |
|       |        |         | for LED assemblies:        | 2: green                            |         |
|       |        |         |                            | 3: amber                            |         |

**White or blue LED assembly :**  
contact APEM.

| Bezel | Description           | Lamp type | Part No |
|-------|-----------------------|-----------|---------|
| ○     | Illum, momentary      | Lamp/LED  | A0210Y  |
| ○     | Illum, maintained     | Lamp/LED  | A0210X  |
| ○     | Illum, momentary      | LED assy  | A0211Y  |
| ○     | Illum, maintained     | LED assy  | A0211X  |
| ○     | Non-illum, momentary  |           | A0212Y  |
| ○     | Non-illum, maintained |           | A0212X  |
| ○     | Illum, indicator      | Lamp/LED  | A0277   |
| ○     | Illum, indicator      | LED assy  | A0278   |

Std bezel material : nickel plated brass.

For optional black finish, add "G" to the end of operator model number.

### UNSEALED SWITCHES (IP40) :

add "01" to end of operator model number.

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

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

SCREEN ENGRAVING / INSERTABLE LEGENDS : contact APEM.

Bezel: ☐ rectangular, ☐ square, ☐ round, 'Illum' - illuminated, 'Non-illum' - non illuminated

# A02 series

## Flush mounting pushbutton switches and indicators

Panel cut-out Ø 30 (1.181)

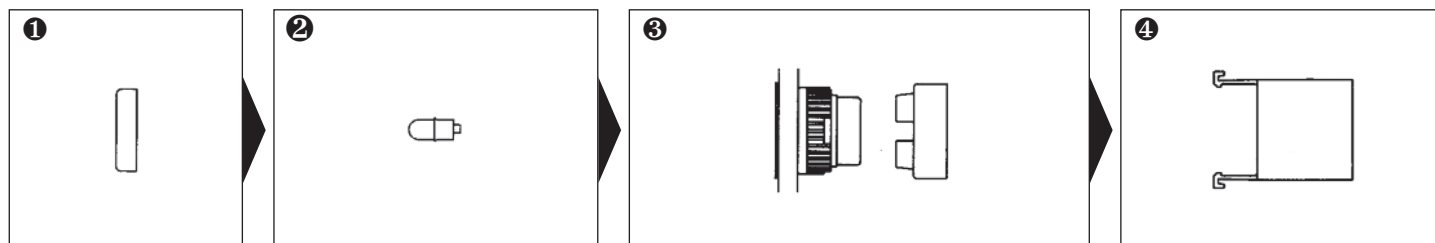
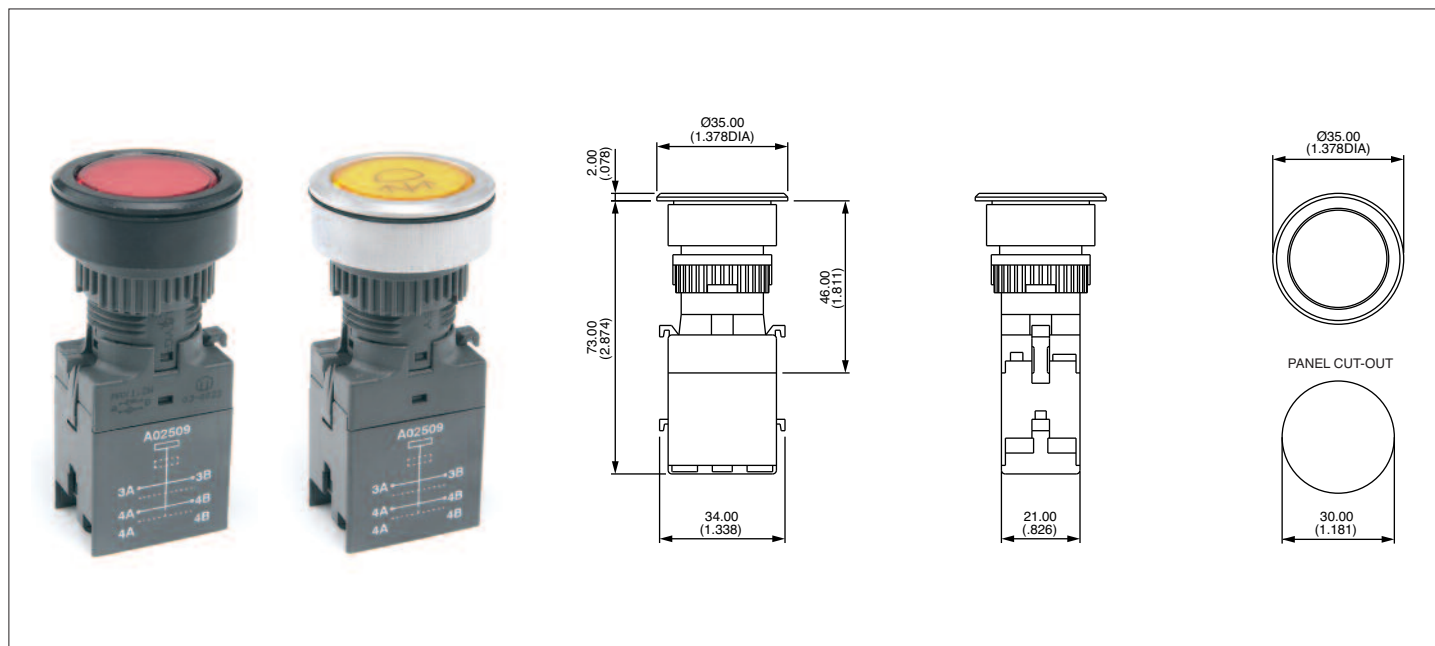
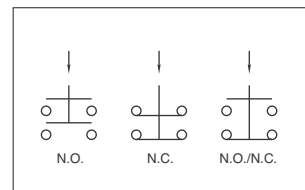
### A pushbutton assembly requires :

screen + lamp (if illuminated) + operator + one or two switch blocks.

### An indicator assembly requires : screen + lamp + operator

To order these elements, select desired model numbers from tables below.

**Example :** IP65 illum. flush mounting maintained pushbutton, switch block with 2 N.O. contacts, red screen and 12V red LED assembly = A0263B, A0244J1, A0213X and A02503UL.



### Screen

| Bezel | Colour | Part No |
|-------|--------|---------|
| ○     | black  | A0263A  |
| ○     | red    | A0263B  |
| ○     | amber  | A0263C  |
| ○     | yellow | A0263D  |
| ○     | green  | A0263E  |
| ○     | blue   | A0263F  |
| ○     | clear  | A0263G  |
| ○     | white  | A0263J  |

### Lamp

| Lamp                                           | Voltage  | Part No |
|------------------------------------------------|----------|---------|
| Filament                                       | 6.3V     | A0141A  |
| Filament                                       | 14V      | A0141B  |
| Filament                                       | 28V      | A0141C  |
| Filament                                       | 36V      | A0141D  |
| Filament                                       | 48V      | A0141E  |
| Filament                                       | 60V      | A0141F  |
| Neon                                           | 110V     | A0143G  |
| Neon                                           | 220V     | A0143H  |
| LED model numbers: see A01 pages G6-G7.        |          |         |
| LED assy ○                                     | 6V       | A0244H* |
| LED assy ○                                     | 12V      | A0244J* |
| LED assy ○                                     | 24V      | A0244K* |
| Replace * with colour code for LED assemblies: |          |         |
|                                                | 1: red   |         |
|                                                | 2: green |         |
|                                                | 3: amber |         |

White or blue LED assembly : contact APEM.

### Operator

| Bezel | Description           | Lamp type | Part No |
|-------|-----------------------|-----------|---------|
| ○     | Illum, momentary      | Lamp/LED  | A0214Y  |
| ○     | Illum, maintained     | Lamp/LED  | A0214X  |
| ○     | Illum, momentary      | LED assy  | A0213Y  |
| ○     | Illum, maintained     | LED assy  | A0213X  |
| ○     | Non-illum, momentary  |           | A0215Y  |
| ○     | Non-illum, maintained |           | A0215X  |
| ○     | Illum, indicator      | Lamp/LED  | A02791  |
| ○     | Illum, indicator      | LED assy  | A02792  |

Std bezel material : silver anodised aluminium.  
For optional black anodised aluminium, add "G" to end of operator model number.

### UNSEALED SWITCHES (IP40) :

add "01" to end of operator model number.

### Switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

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

SCREEN ENGRAVING / INSERTABLE LEGENDS : contact APEM.

Bezel: □ rectangular, □ square, ○ round, 'Illum' - illuminated, 'Non-illum' - non illuminated

# A02 series

## Indicators

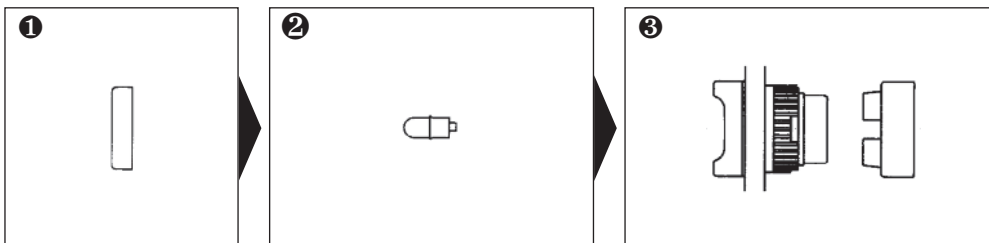
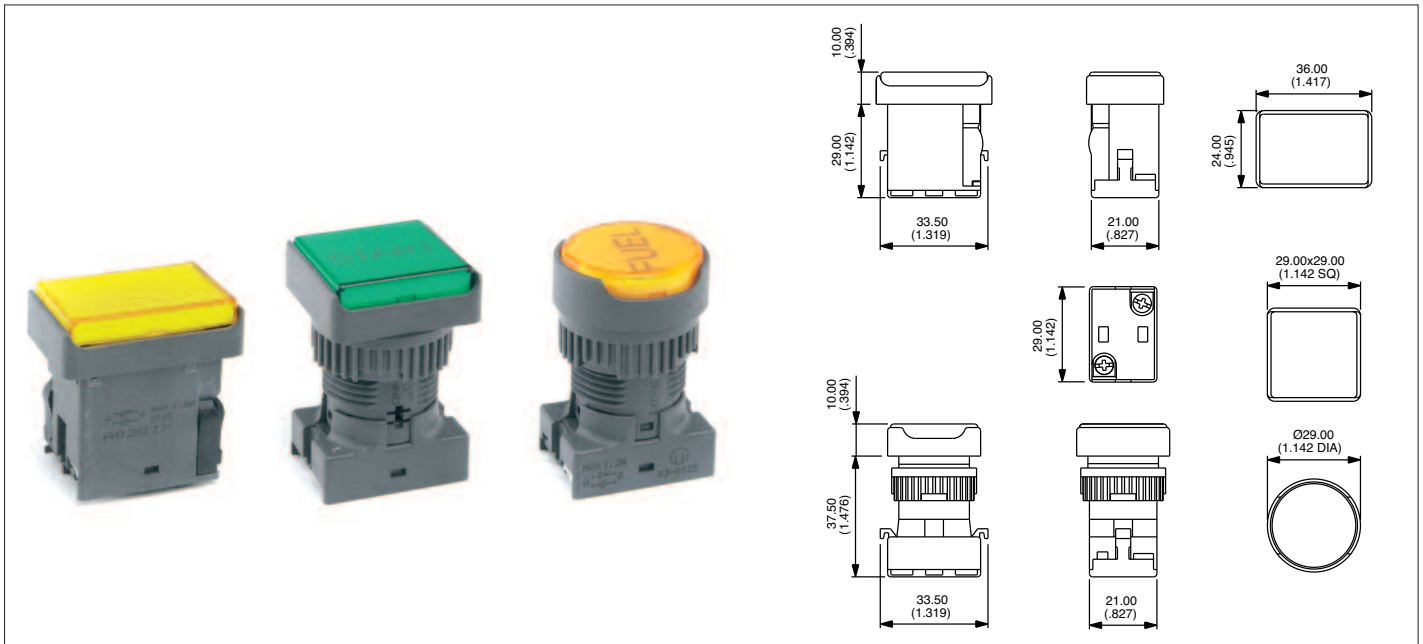
Panel cut-out Ø 22 (.866) or 29,5 x 21,5 (1.160x.846)

### An indicator assembly requires :

Screen + lamp, LED or LED assembly + operator.

To order these elements, select desired model numbers from tables below.

**Example :** IP65 rectangular indicator with red screen and 12V red LED assembly = A0261B, A0242J1 and A0272.



### Screen

| Bezel | Colour | Part No | Lamp                       | Voltage                             | Part No  |
|-------|--------|---------|----------------------------|-------------------------------------|----------|
| □     | black  | A0261A  | Filament                   | 6.3V                                | A0141A   |
| □     | red    | A0261B  | Filament                   | 14V                                 | A0141B   |
| □     | amber  | A0261C  | Filament                   | 28V                                 | A0141C   |
| □     | yellow | A0261D  | Filament                   | 36V                                 | A0141D   |
| □     | green  | A0261E  | Filament                   | 48V                                 | A0141E   |
| □     | blue   | A0261F  | Filament                   | 60V                                 | A0141F   |
| □     | clear  | A0261G  | Neon                       | 110V                                | A0143G   |
| □     | white  | A0261J  | Neon                       | 220V                                | A0143H   |
| □     | black  | A0262A  | LED                        | model numbers: see A01 pages G6-G7. |          |
| □     | red    | A0262B  |                            |                                     |          |
| □     | amber  | A0262C  | LED assy                   | 6V                                  | A0242H*  |
| □     | yellow | A0262D  | LED assy                   | 12V                                 | A0242J*  |
| □     | green  | A0262E  | LED assy                   | 24V                                 | A0242K*  |
| □     | blue   | A0262F  | LED assy                   | 6V                                  | A0243H*  |
| □     | clear  | A0262G  | LED assy                   | 12V                                 | A0243J*  |
| □     | white  | A0262J  | LED assy                   | 24V                                 | A0243K*  |
| ○     | black  | A0263A  | LED assy                   | 6V                                  | A0244H*  |
| ○     | red    | A0263B  | LED assy                   | 12V                                 | A0244J*  |
| ○     | amber  | A0263C  | LED assy                   | 24V                                 | A0244K*  |
| ○     | yellow | A0263D  |                            |                                     |          |
| ○     | green  | A0263E  | Replace * with colour code |                                     | 1: red   |
| ○     | blue   | A0263F  | for LED assemblies:        |                                     | 2: green |
| ○     | clear  | A0263G  |                            |                                     | 3: amber |
| ○     | white  | A0263J  |                            |                                     |          |

### Lamp

### Operator

| Bezel | Description | Lamp type | Part No |
|-------|-------------|-----------|---------|
| □     | Indicator   | Lamp/LED  | A0271   |
| □     | Indicator   | LED assy  | A0272   |
| □     | Indicator   | Lamp/LED  | A0273   |
| □     | Indicator   | LED assy  | A0274   |
| ○     | Indicator   | Lamp/LED  | A0275   |
| ○     | Indicator   | LED assy  | A0276   |

### UNSEALED INDICATORS (IP40) :

add "01" to end of operator model number.

**White or blue LED assembly :**  
contact APEM.

**SCREEN ENGRAVING / INSERTABLE LEGENDS :** contact APEM.

Bezel: □ rectangular, □ square, ○ round,

# A02 series

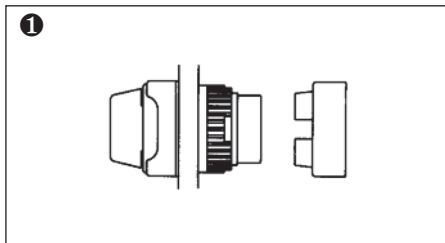
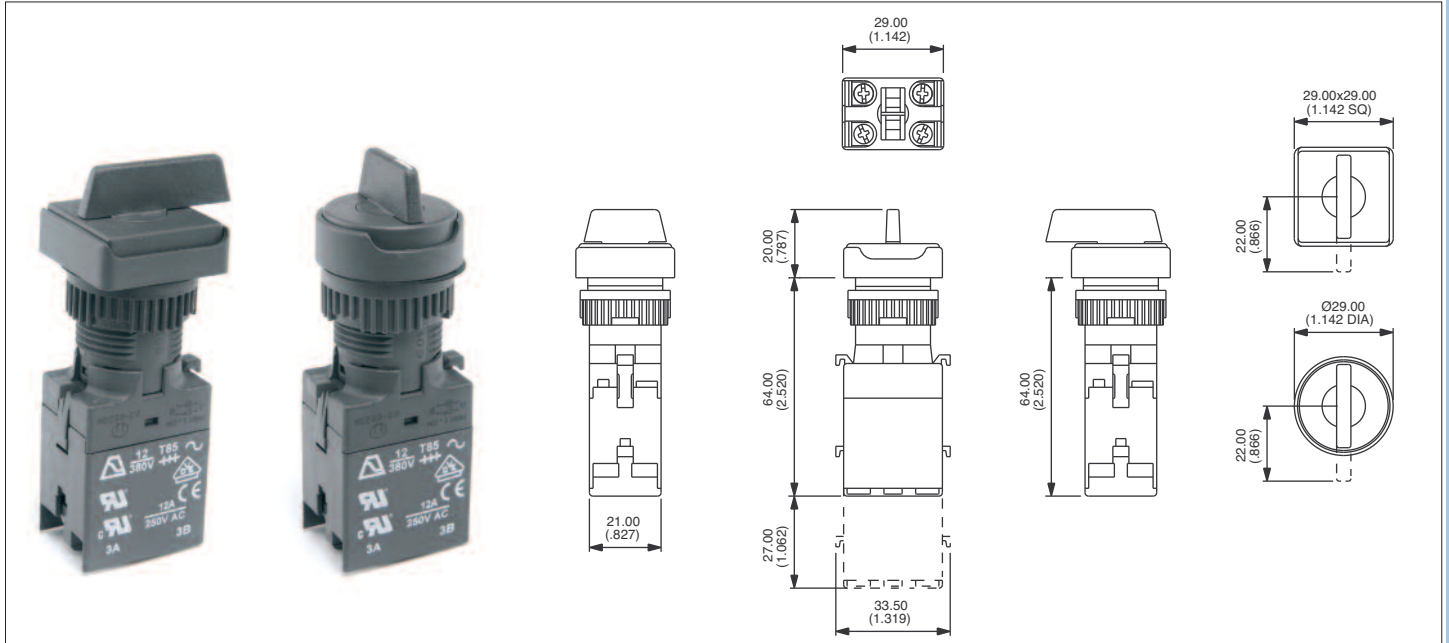
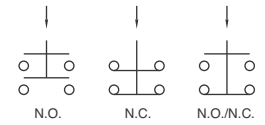
## Rotary switches

Panel cut-out Ø 22 (.866)

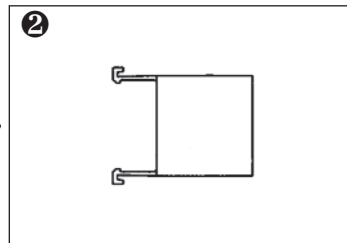
**A rotary lever assembly requires :**  
operator + one or two switch blocks.

To order these elements, select desired model numbers from tables below.

**Example :** IP65 square 2 position maintained rotary switch with long lever, clockwise rotation, switch block with 2 N.O. contacts = A029107 and A02503UL.



**Operator**



**Switch block**

| Bezel                    | Description        | Short lever | Long lever |
|--------------------------|--------------------|-------------|------------|
| <input type="checkbox"/> | 2 pos. maintained  | A029207     | A029107•   |
| <input type="checkbox"/> | 2 pos. momentary   | A029208     | A029108•   |
| <input type="checkbox"/> | 3 pos. maintained  | A029203     | A029103    |
| <input type="checkbox"/> | 3 pos. momentary   | A029204     | A029104    |
| <input type="checkbox"/> | 3 pos. mainL, momR | A029205     | A029105    |
| <input type="checkbox"/> | 3 pos. momL, mainR | A029206     | A029106    |
| <input type="checkbox"/> | 2 pos. maintained  | A029407     | A029307•   |
| <input type="checkbox"/> | 2 pos. momentary   | A029408     | A029308•   |
| <input type="checkbox"/> | 3 pos. maintained  | A029403     | A029303    |
| <input type="checkbox"/> | 3 pos. momentary   | A029404     | A029304    |
| <input type="checkbox"/> | 3 pos. mainL, momR | A029405     | A029305    |
| <input type="checkbox"/> | 3 pos. momL, mainR | A029406     | A029306    |

### OPTION

To specify **flush mounting (30 mm Ø) option**, add "FM" to the end of the part number (for round operators only).

Example : A029407FM.

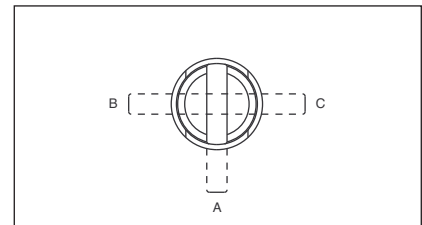
| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

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

### Lever positions



#### • Lever Rotation - 2 position switches

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

For anticlockwise rotation, replace :

07 with 01  
08 with 02

at the end of the model number.

### Optional engraving on lever end



To order, add "WL" to the end of the part No.  
Example : A029407WL.

Bezel: ☐ square, ☐ round,



# A02 series

## Keylock switches

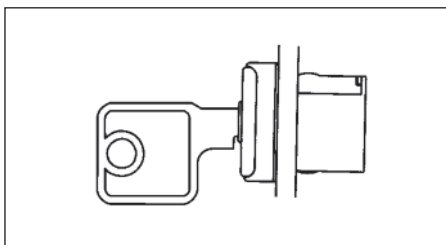
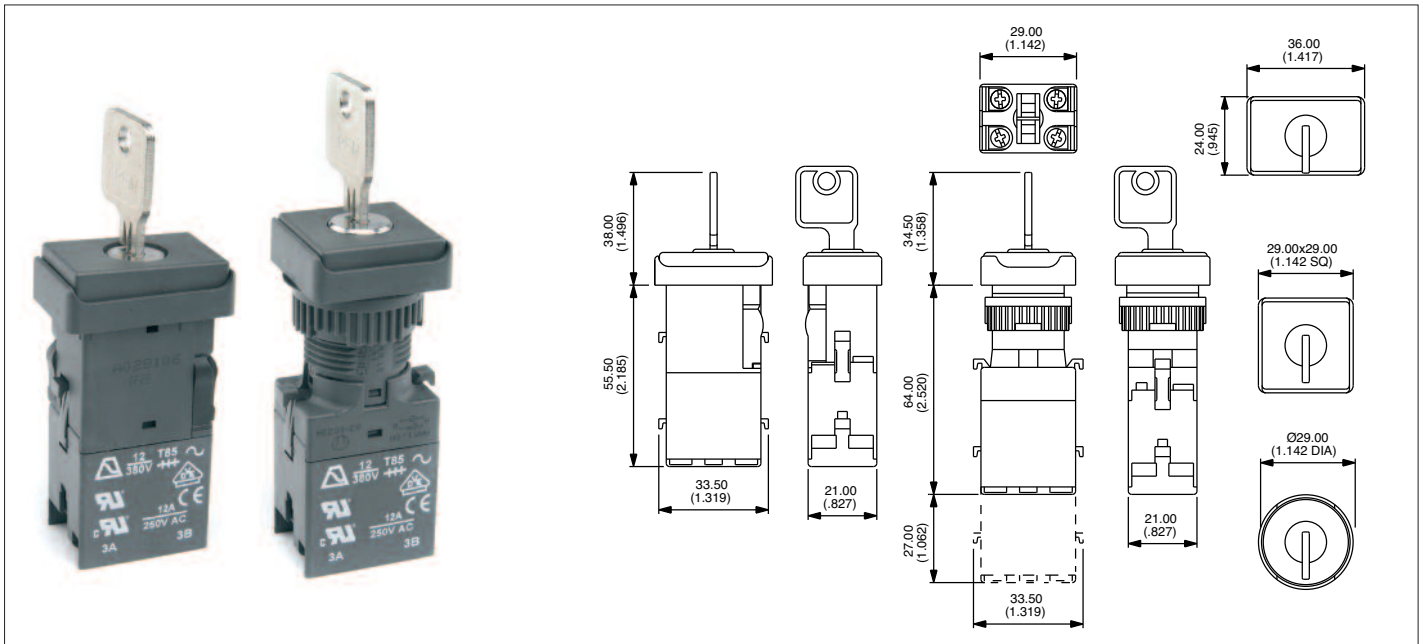
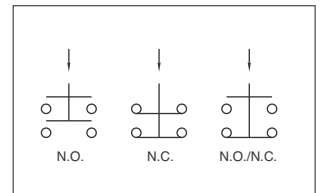
Panel cut-out Ø 22 or 29,5 x 21,5

### A keyswitch assembly requires :

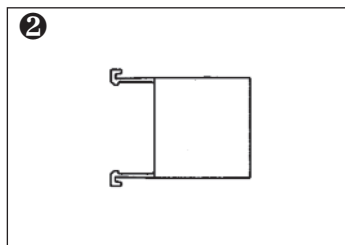
operator + one or two switch blocks.

To order these elements, select desired model numbers from tables below.

**Example :** IP65 square 2 position keyswitch, clockwise rotation, switch block with 2 N.O. contacts = A028220 and A02503UL.

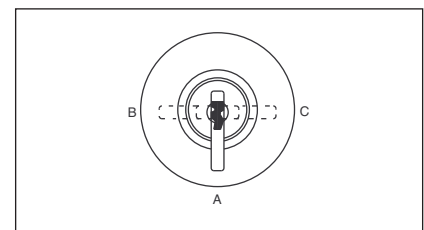


**Operator**



**Switch block**

### Key positions



#### • Key Rotation - 2 position switches

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

For anticlockwise rotation, replace:

20 with 01  
19 with 02

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.

| Bezel | Description        | Part No  | Key removable in positions |
|-------|--------------------|----------|----------------------------|
|       | 2 pos. maintained  | A028120• | A-B                        |
|       | 2 pos. momentary   | A028119• | A                          |
|       | 3 pos. maintained  | A028105  | A-B-C                      |
|       | 3 pos. momentary   | A028106  | A                          |
|       | 3 pos. mainL, momR | A028107  | A-B                        |
|       | 3 pos. momL, mainR | A028108  | A-C                        |
|       | 2 pos. maintained  | A028220• | A-B                        |
|       | 2 pos. momentary   | A028219• | 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  | A028320• | A-B                        |
|       | 2 pos. momentary   | A028319• | A                          |
|       | 3 pos. maintained  | A028305  | A-B-C                      |
|       | 3 pos. momentary   | A028306  | A                          |
|       | 3 pos. mainL, momR | A028307  | A-B                        |
|       | 3 pos. momL, mainR | A028308  | A-C                        |

#### OPTION

To specify **flush mounting (30 mm Ø) option**, add "FM" to the end of the part number (for round operators only). Example : A028320FM.

Bezel: rectangular, square, round,

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

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

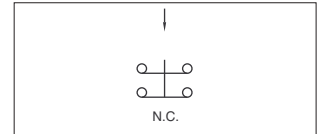
# A02 series

## Emergency stop switches

Panel cut-out Ø 22 (.866)

- Prominent 40 mm (1.575) dia. red mushroom actuator
- Highly reliable positive break switch
- Push to shut off switch, twist to reset to ON
- Approved to UL 1054

An emergency stop switch assembly requires : operator + switch block.  
To order, specify with single pole or double pole positive break switch block.

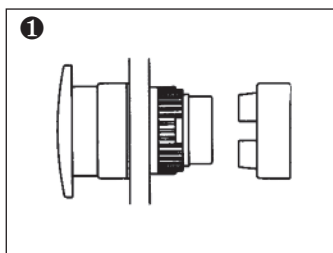
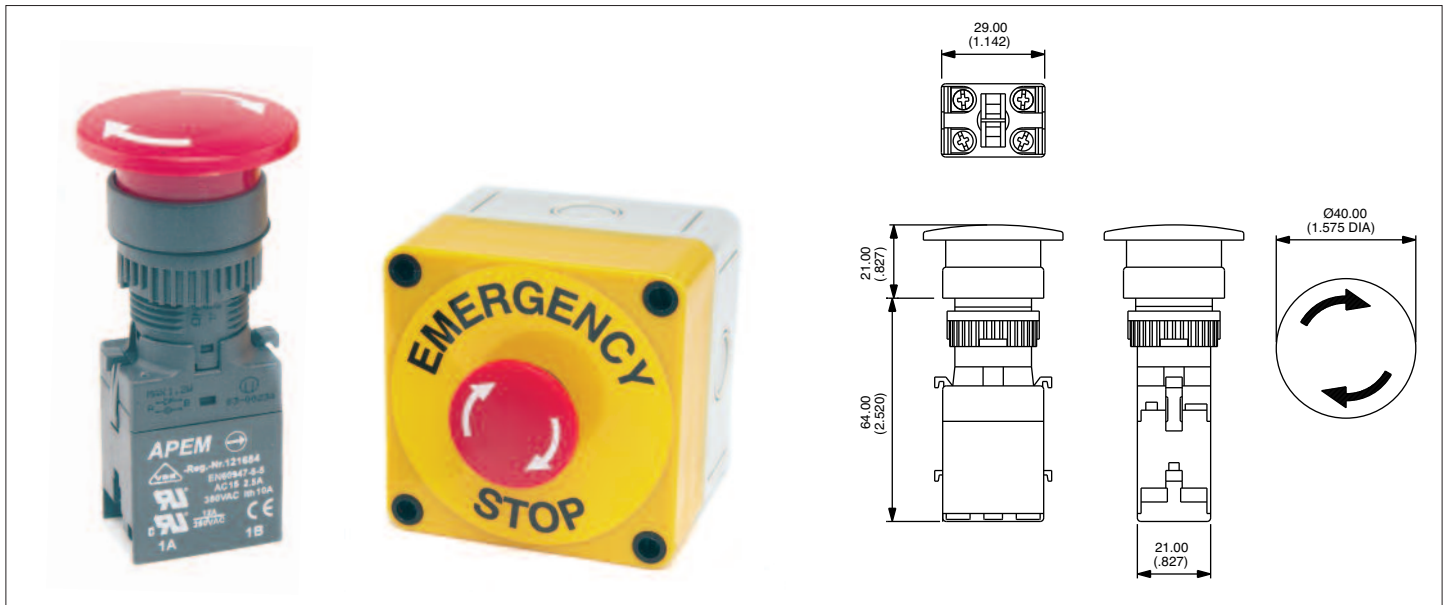


### General specifications

- Mechanical life : 6.050 cycles (6 cycles per minute)
- Operating force : 20 N
- Operating temperature : -20°C to +85°C
- Degree of environ. protection (IEC529) : IP65 front of panel, IP40 back of panel
- Switch terminals : M3 screws - wire 2x0.75mm<sup>2</sup> max.

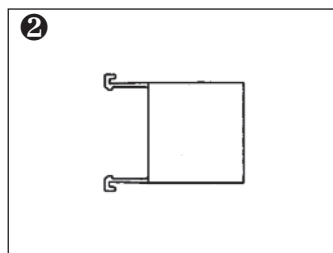
### Electrical specifications

- Current/voltage rating : 2,5A 380VAC AC-15
- Contact gap : > 3 mm (.118)
- Dielectric strength : 2.500V
- Electrical life : 6.050 cycles



### Operator

| Bezel | Description    | Part No. |
|-------|----------------|----------|
|       | Emergency stop | A02ES    |



### Switch block

| No of poles | Part No. |
|-------------|----------|
| Double pole | A02511   |
| Single pole | A02512   |

### Accessory



### 90 mm Ø Self Adhesive Label

| Description            | Part No. |
|------------------------|----------|
| Yellow label with text | A02YL1   |
| Yellow label           | A02YL2   |

### EMERGENCY STOP SWITCH ENCLOSURE

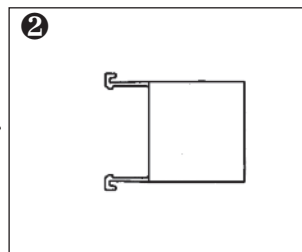
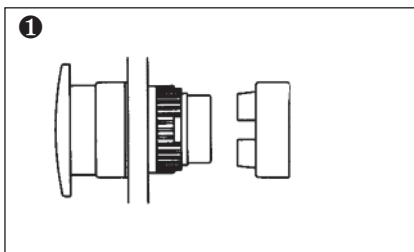
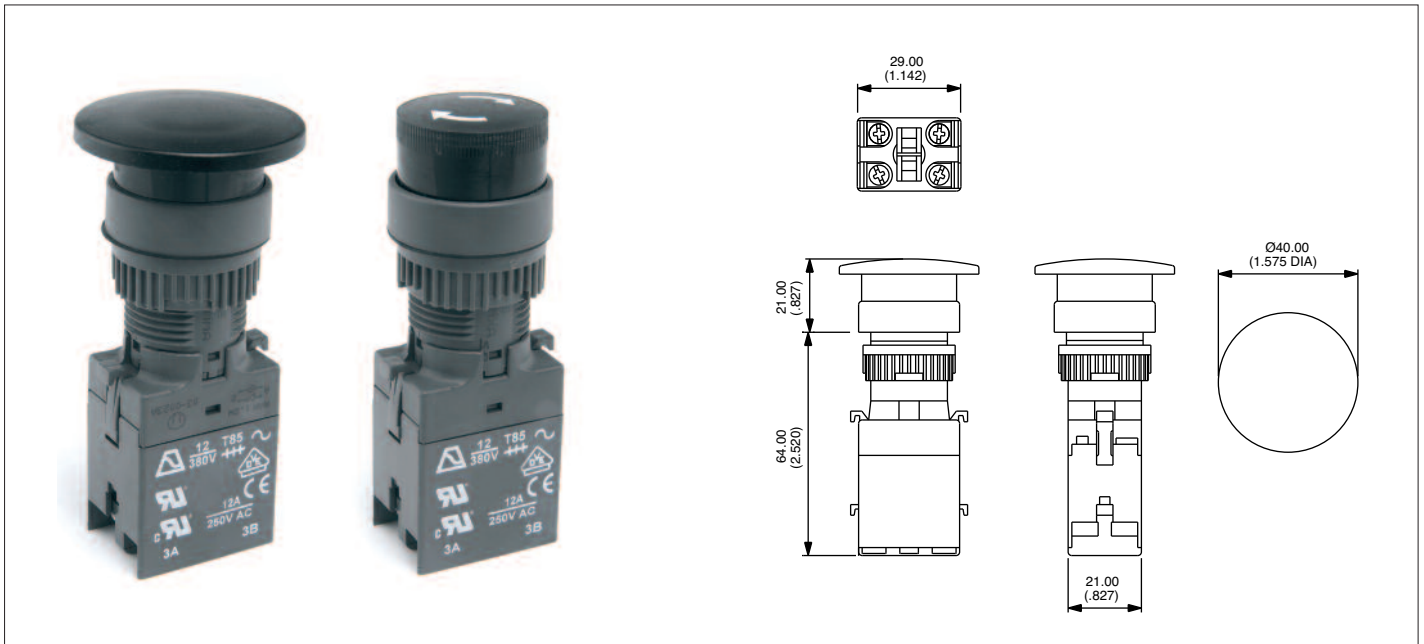
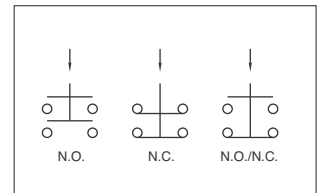
To order the Emergency Stop Switch in the Plastic Enclosure (94 x 94 x 81 mm) with a 2 pole Positive Break Switch Block and Emergency Stop label, use Part number : A02PE2L.

# A02 series

## Mushroom head pushbutton switches

Panel cut-out Ø 22 (.866)

- Prominent 40 mm (1.575) dia. mushroom actuator or optional 26 mm (1.024) actuator
- Momentary and maintained functions  
Momentary function versions are unmarked  
Maintained function versions are twist to release (arrows indicate direction of twist)
- Various coloured mushroom actuators are available



### Operator

| Bezel | Description       | Part No |
|-------|-------------------|---------|
| ○     | Black momentary   | A02MMA  |
| ○     | Red momentary     | A02MMB  |
| ○     | Yellow momentary  | A02MMD  |
| ○     | Green momentary   | A02MME  |
| ○     | Blue momentary    | A02MMF  |
| ○     | Black maintained  | A02MXA  |
| ○     | Red maintained    | A02MXB  |
| ○     | Yellow maintained | A02MXD  |
| ○     | Green maintained  | A02MXE  |
| ○     | Blue maintained   | A02MXF  |

### Switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02501UL |
| 1 N.C.        | A02502UL |
| 2 N.O.        | A02503UL |
| 2 N.C.        | A02504UL |
| 1 N.O./1 N.C. | A02505UL |

### Second switch block

| Contacts      | Part No  |
|---------------|----------|
| 1 N.O.        | A02506UL |
| 1 N.C.        | A02507UL |
| 2 N.O.        | A02508UL |
| 2 N.C.        | A02509UL |
| 1 N.O./1 N.C. | A02510UL |

### OPTION

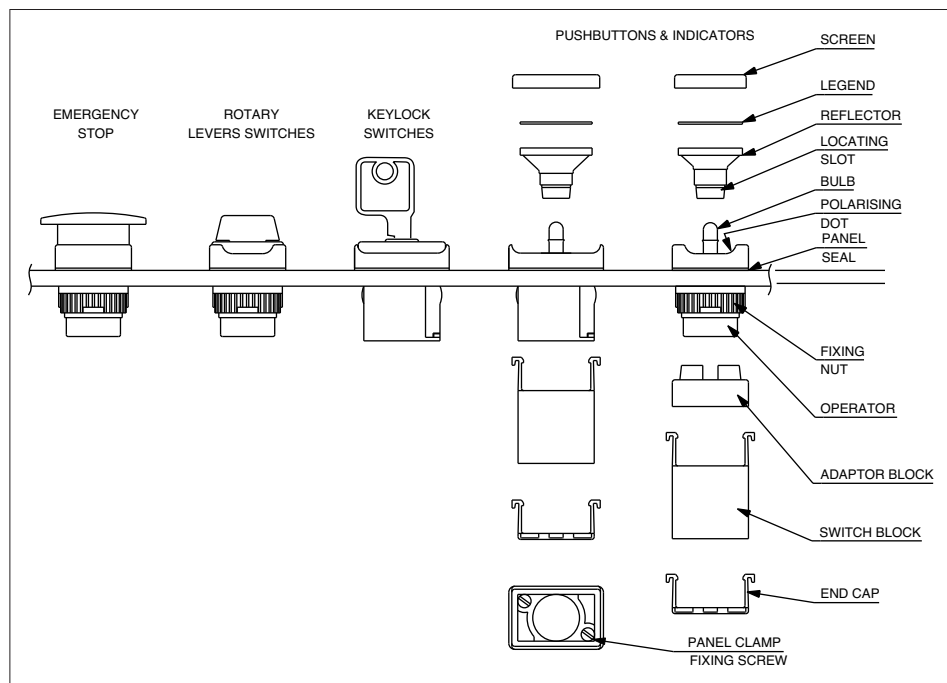
For optional **reduced (Ø 26 mm)** mushroom head operators : contact APEM.

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

Bezel: ○ round

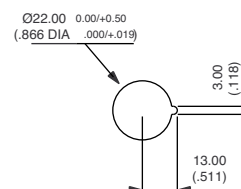


## Modular construction / panel mounting

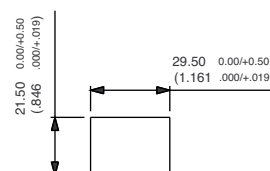


### PANEL CUT-OUT

#### Round & square operators



#### Rectangular operators



Max. panel thickness : 8 mm (.315)

### PANEL MOUNTING ASSEMBLY

- Drill/punch hole in panel as shaped above.
- Assemble front operator through hole and :
  - Round & square types* : tighten nut to a maximum torque of 0,8Nm using tool No 30-0001. Snap on adaptor block
  - Rectangular types* : tighten two panel fixing screws in front to a maximum torque of 0,06Nm.
- Wire chosen switch block as required and snap onto front operator.
- Snap end cap onto switch block.
- Fit bulb if required using tool No 30-0002.
- Snap screen onto reflector assembly with legend in between if required and snap into front operator **TAKING CARE TO LINE UP THE LOCATING SLOT WITH THE POLARISING DOT**, and not to damage the seal.

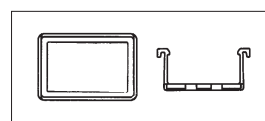
### TO REMOVE BULB

Remove reflector/screen assembly. Use the bulb extractor 30-0002 to remove the bulb.

### TO REMOVE SWITCH BLOCK

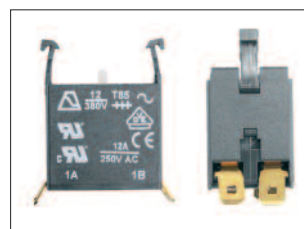
Lever out latches using small screwdriver taking care not to overbend, and pull off the block from the front operator.

### A02 Accessories



Part No : 14-0005

End cap terminal guard offering unique terminal protection.



6.35 mm push on tab terminals.  
Specify "SP" to the end of the switchblock and operator P/N.  
Example : A02503SP.

# A03 series

## Illuminated or non-illuminated pushbutton switches and indicators

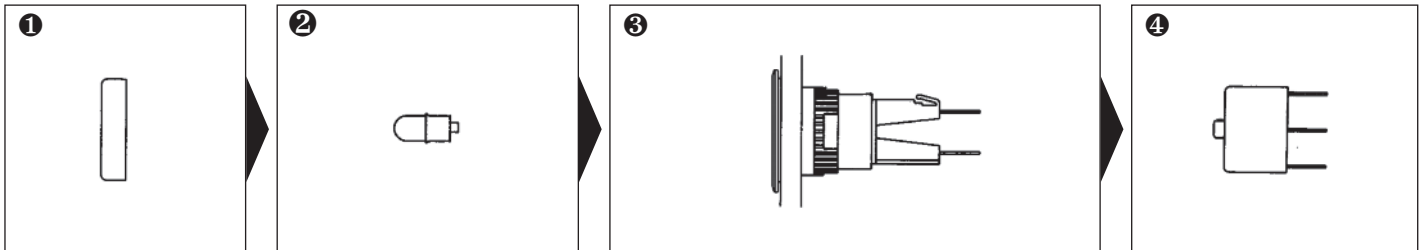
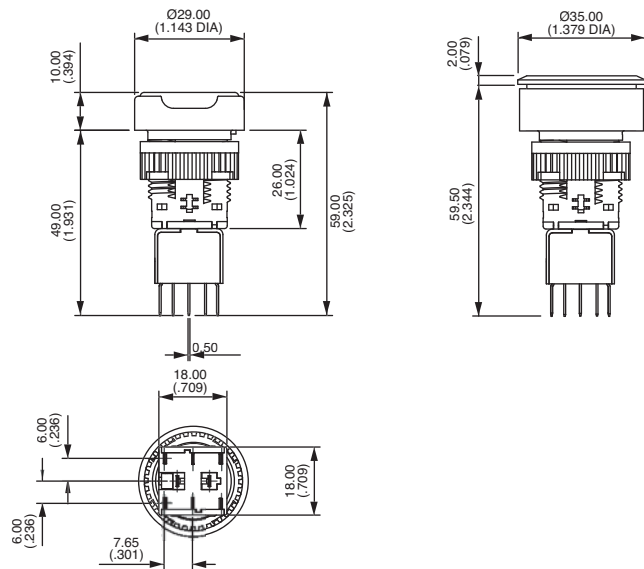
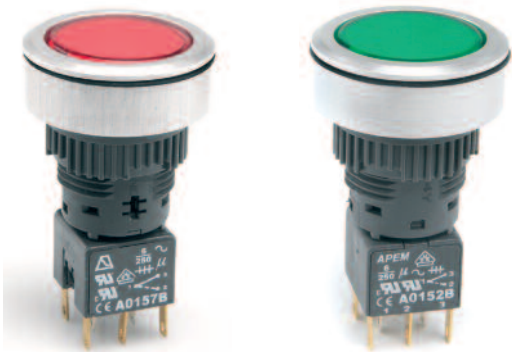
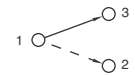
Panel cut-out Ø 22 (.866) or 30 (1.181) - Plastic or metal flush mounting bezel

### A pushbutton assembly requires :

screen + lamp (if illuminated) + operator + switch block.

To order these elements, select desired model numbers from tables below.

**Example :** IP65 flush mounting round pushbutton, maintained function, red screen, 12V red LED and single pole switch block = A0314X, A0263B, A0142M1 and A0151BUL.



### Screen

| Bezel | Colour | Part No |
|-------|--------|---------|
| ○     | black  | A0263A  |
| ○     | red    | A0263B  |
| ○     | amber  | A0263C  |
| ○     | yellow | A0263D  |
| ○     | green  | A0263E  |
| ○     | blue   | A0263F  |
| ○     | clear  | A0263G  |
| ○     | white  | A0263J  |

### Lamp

| Lamp     | Voltage   | Part No |
|----------|-----------|---------|
| Filament | 6.3V      | A0141A  |
| Filament | 14V       | A0141B  |
| Filament | 28V       | A0141C  |
| Filament | 36V       | A0141D  |
| Filament | 48V       | A0141E  |
| Filament | 60V       | A0141F  |
| Neon     | 110V      | A0143G  |
| Neon     | 220V      | A0143H  |
| LED      | 6V red    | A0142L1 |
| LED      | 6V green  | A0142L2 |
| LED      | 6V amber  | A0142L3 |
| LED      | 12V red   | A0142M1 |
| LED      | 12V green | A0142M2 |
| LED      | 12V amber | A0142M3 |
| LED      | 12V blue  | A0142M4 |
| LED      | 12V white | A0142M5 |
| LED      | 24V red   | A0142N1 |
| LED      | 24V green | A0142N2 |
| LED      | 24V amber | A0142N3 |
| LED      | 24V blue  | A0142N4 |
| LED      | 24V white | A0142N5 |
| LED      | 48V red   | A0142P1 |
| LED      | 48V green | A0142P2 |
| LED      | 48V amber | A0142P3 |

### Operator

| Bezel | Description                   | Lamp type     | Part No |
|-------|-------------------------------|---------------|---------|
| ○     | Plastic illum, momentary      | Lamp/LED bulb | A0307Y  |
| ○     | Plastic illum, maintained     | Lamp/LED bulb | A0307X  |
| ○     | Plastic non-illum, momentary  |               | A0309Y  |
| ○     | Plastic non-illum, maintained |               | A0309X  |
| ○     | Metal illum, momentary        | Lamp/LED bulb | A0310Y  |
| ○     | Metal illum, maintained       | Lamp/LED bulb | A0310X  |
| ○     | Metal non-illum, momentary    |               | A0312Y  |
| ○     | Metal non-illum, maintained   |               | A0312X  |
| ○     | F/mount illum, momentary      | Lamp/LED bulb | A0314Y  |
| ○     | F/mount illum, maintained     | Lamp/LED bulb | A0314X  |
| ○     | F/mount non-illum, momentary  |               | A0315Y  |
| ○     | F/mount non-illum, maintained |               | A0315X  |
| ○     | Plastic indicator             |               | A0375   |
| ○     | Metal indicator               |               | A0377   |
| ○     | F/mount indicator             |               | A03791  |

### Switch block

| No of poles | Part No  |
|-------------|----------|
| Single pole | A0151BUL |
| Double pole | A0152BUL |
| Three pole  | A0155BUL |
| Four pole   | A0153BUL |

### UNSEALED SWITCHES (IP40) :

add "01" to end of operator model number.

SCREEN ENGRAVING / INSERTABLE LEGENDS : contact APEM.

Bezel: ○ round. 'Illum' - illuminated, 'Non-illum' - non illuminated