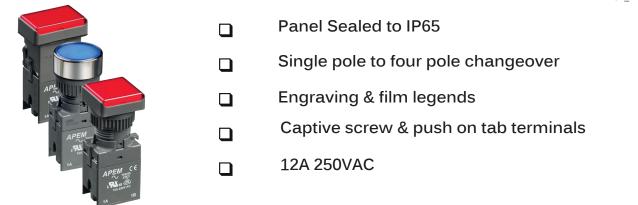
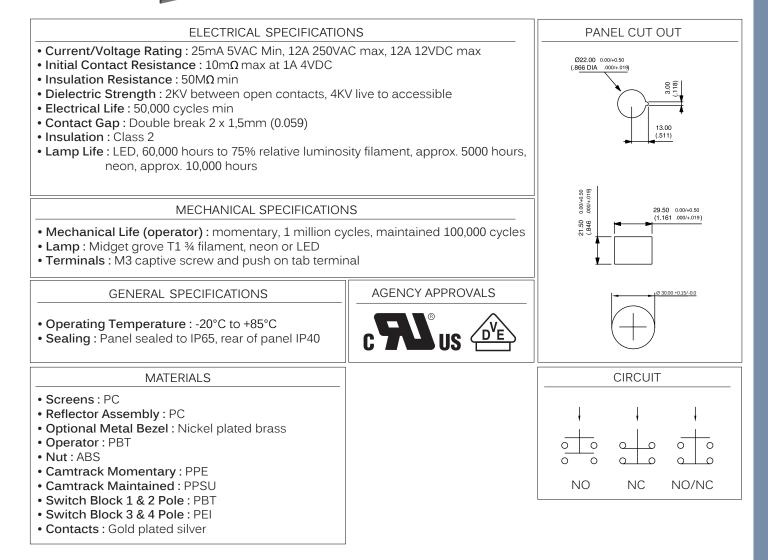
# A02 series

Pushbutton switches & indicators

Distinctive features and specifications

A02\_AX1607USR2





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

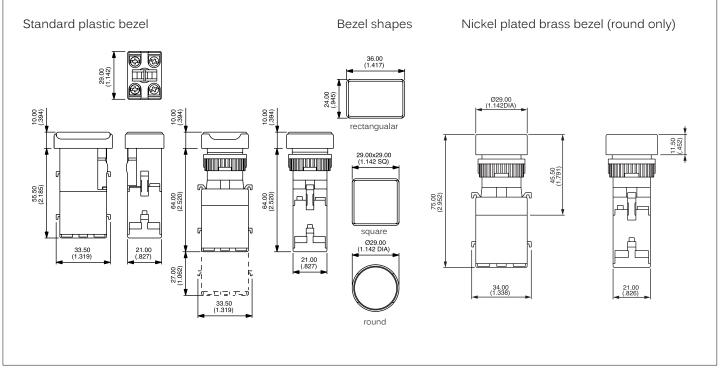


Mounting accessories : standard hardware 1 nut and 1 sealing washer.

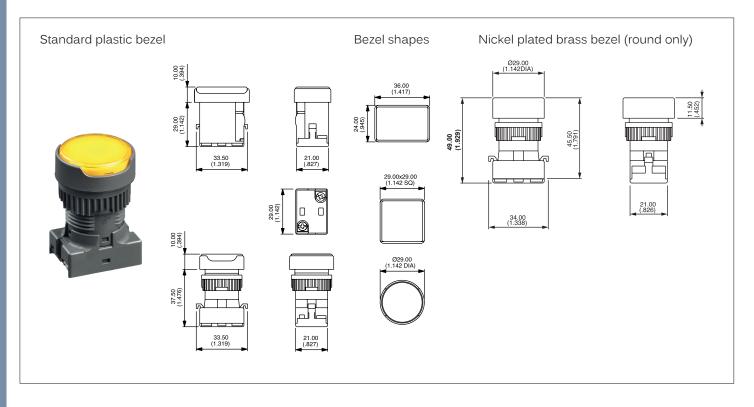
# A02 series Pushbutton switches & indicators

Panel cut-out Ø22mm (0.866) or 29.5 (1.161) x 21.5(0.846)mm

## Ø22mm or 29.5 x 21.5mm Surface mount pushbutton



## Ø22mm or 29.5 x 21.5mm Surface mount indicator



## A02 series Pushbutton switches & indicators

Overview

### Pushbutton

|        | Screen ·  |           | +          | Lamp (if required) |              | + Operator             |                       | Itor (with standard beze | el) 🕂   | Switch block      |         |  |  |
|--------|-----------|-----------|------------|--------------------|--------------|------------------------|-----------------------|--------------------------|---------|-------------------|---------|--|--|
| Bezel  | Colour    | Part No   | Lamp       | Voltage            | Part No      | Bezel                  | Description           | Lamp type                | Part No | Contacts          | Part N  |  |  |
|        | black     | A0261A    | Filament   | 6.3V               | A0141A       |                        | Illum, momentary      | Lamp/LED bulb            | A0201Y  | 1 N.O.            | A0250   |  |  |
|        | red       | A0261B    | Filament   | 14V                | A0141B       |                        | Illum, maintained     | Lamp/LED bulb            | A0201X  | 1 N.C.            | A0250   |  |  |
|        | amber     | A0261C    | Filament   | 28V                | A0141C       |                        | Non-illum, momentary  |                          | A0203Y  | 2 N.O.            | A0250   |  |  |
|        | yellow    | A0261D    | Filament   | 36V                | A0141D       |                        | Non-illum, maintained |                          | A0203X  | 2 N.C.            | A0250   |  |  |
|        | green     | A0261E    | Filament   | 48V                | A0141E       |                        | Illum, momentary      | Lamp/LED bulb            | A0204Y  | 1 N.O./1 N.C.     | A025    |  |  |
|        | blue      | A0261F    | Filament   | 60V                | A0141F       |                        | Illum, maintained     | Lamp/LED bulb            | A0204X  |                   |         |  |  |
|        | clear     | A0261G    | Neon       | 110V               | A0143G       |                        | Non-illum, momentary  |                          | A0206Y  | Second swit       | ch bloc |  |  |
|        | white     | A0261J    | Neon       | 220V               | A0143H       |                        | Non-illum, maintained |                          | A0206X  |                   |         |  |  |
|        | black     | A0262A    | LED        | 6V red             | A0142L1      | 0                      | Illum, momentary      | Lamp/LED bulb            | A0207Y  | Contacts          | Part N  |  |  |
|        | red       | A0262B    | LED        | 6V green           | A0142L2      | 0                      | Illum, maintained     | Lamp/LED bulb            | A0207X  |                   |         |  |  |
|        | amber     | A0262C    | LED        | 6V amber           | A0142L3      | 0                      | Non-illum, momentary  |                          | A0209Y  | 1 N.O.            | A025    |  |  |
|        | yellow    | A0262D    | LED        | 12V red            | A0142M1      | 0                      | Non-illum, maintained |                          | A0209X  | 1 N.C.            | A025    |  |  |
|        | green     | A0262E    | LED        | 12V green          | A0142M2      |                        | <b>0</b>              |                          |         | 2 N.O.            | A025    |  |  |
|        | blue      | A0262F    | LED        | 12V amber          | A0142M3      |                        | Opera                 | Itor (with nickel bezel) |         | 2 N.C.            | A0250   |  |  |
|        | clear     | A0262G    | LED        | 12V blue           | A0142M4      | Bezel                  | Description           | Lamp type                | Part No | 1 N.O./1 N.C.     | A025    |  |  |
|        | white     | A0262J    | LED        | 12V white          | A0142M5      |                        |                       |                          |         | To achieve 3 or   | 1 nolo  |  |  |
| С      | black     | A0263A    | LED        | 24V red            | A0142N1      | 0                      | Illum, momentary      | Lamp/LED bulb            | A0210Y  |                   |         |  |  |
| С      | red       | A0263B    | LED        | 24V green          | A0142N2      | 0                      | Illum, maintained     | Lamp/LED bulb            | A0210X  | switching, add s  |         |  |  |
| С      | amber     | A0263C    | LED        | 24V amber          | A0142N3      | 0                      | Non-illum, momentary  |                          | A0212Y  | switch block fror | n above |  |  |
| С      | yellow    | A0263D    | LED        | 24V blue           | A0142N4      | 0                      | Non-illum, maintained |                          | A0212X  | table.            |         |  |  |
| С      | green     | A0263E    | LED        | 24V white          | A0142N5      |                        |                       |                          |         |                   |         |  |  |
| С      | blue      | A0263F    | LED        | 48V red            | A0142P1      |                        | zel material : nicke  |                          |         |                   |         |  |  |
| С      | clear     | A0263G    | LED        | 48V green          | A0142P2      | For op                 | tional black finish,  | add 'G' to the           | end of  |                   |         |  |  |
| С      | white     | A0263J    | LED        | 48V amber          | A0142P3      | operator model number. |                       |                          |         |                   |         |  |  |
| Bezel: | rectangul | ar 🗌 squa | are O roui | nd. 'Illum' -      | illuminated, | 'Non-illu              | um' - non illuminated |                          |         |                   |         |  |  |

## Indicator

| ezel | Colour | Part No | Lamp     | Voltage   | Part No | Bezel  | Description      | Lamp type                   | Part No |  |
|------|--------|---------|----------|-----------|---------|--|------------------|-----------------------------|---------|--|
| 7    | black  | A0261A  | Filament | 6.3V      | A0141A  |  | Indicator        | Lamp/LED bulb               | A0271   |  |
|      | red    | A0261B  | Filament | 14V       | A0141B  |  | Indicator        | Lamp/LED bulb               | A0273   |  |
|      | amber  | A0261C  | Filament | 28V       | A0141C  | 0  | Indicator        | Lamp/LED bulb               | A0275   |  |
|      | yellow | A0261D  | Filament | 36V       | A0141D  | 0  |                  | 1.                          | A0275   |  |
|      | green  | A0261E  | Filament | 48V       | A0141E  |  | Οβ               | Derator (with nickel bezel) |         |  |
|      | blue   | A0261F  | Filament | 60V       | A0141F  | $\sim$   |                  | 4551.0                      |         |  |
|      | clear  | A0261G  | Neon     | 110V      | A0143G  | 0  | Illum, indicator | Lamp/LED bulb               | A0277   |  |
|      | white  | A0261J  | Neon     | 220V      | A0143H  | Std bo   |                  | nickal plated brass         |         |  |
| ]    | black  | A0262A  | LED      | 6V red    | A0142L1 | Std bezel material : nickel plated brass         |                  |                             |         |  |
|      | red    | A0262B  | LED      | 6V green  | A0142L2 | For optional black finish, add 'G' to the end of |                  |                             |         |  |
|      | amber  | A0262C  | LED      | 6V amber  | A0142L3 | operator model number.                           |                  |                             |         |  |
|      | yellow | A0262D  | LED      | 12V red   | A0142M1 |  |                  |                             |         |  |
| ]    | green  | A0262E  | LED      | 12V green | A0142M2 |  |                  |                             |         |  |
| ]    | blue   | A0262F  | LED      | 12V amber | A0142M3 |  |                  |                             |         |  |
|      | clear  | A0262G  | LED      | 12V blue  | A0142M4 |  |                  |                             |         |  |
|      | white  | A0262J  | LED      | 12V white | A0142M5 |  |                  |                             |         |  |
| )    | black  | A0263A  | LED      | 24V red   | A0142N1 |  |                  |                             |         |  |
| )    | red    | A0263B  | LED      | 24V green | A0142N2 |  |                  |                             |         |  |
| )    | amber  | A0263C  | LED      | 24V amber | A0142N3 |  |                  |                             |         |  |
| )    | yellow | A0263D  | LED      | 24V blue  | A0142N4 |  |                  |                             |         |  |
| )    | green  | A0263E  | LED      | 24V white | A0142N5 |  |                  |                             |         |  |
| )    | blue   | A0263F  | LED      | 48V red   | A0142P1 |  |                  |                             |         |  |
| )    | clear  | A0263G  | LED      | 48V green | A0142P2 |  |                  |                             |         |  |
| )    | white  | A0263J  | LED      | 48V amber | A0142P3 |  |                  |                             |         |  |

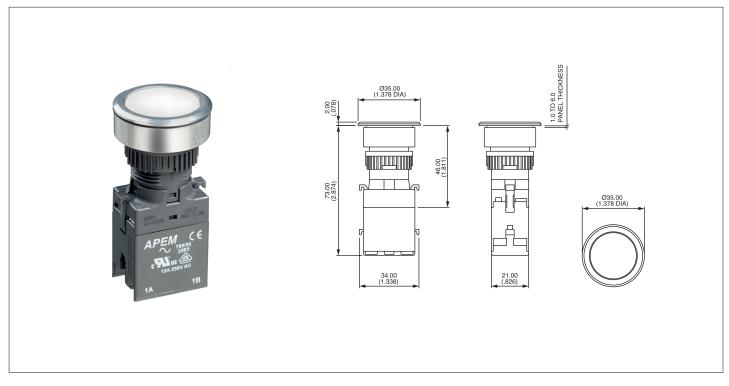


Unsealed switches & indicators (IP40) suffix 01 to the end of the part number. Screen engraving insertable legends, & bi-color LED's please contact APEM For 6.35mm push on tab terminals suffix the switch block part number with SP

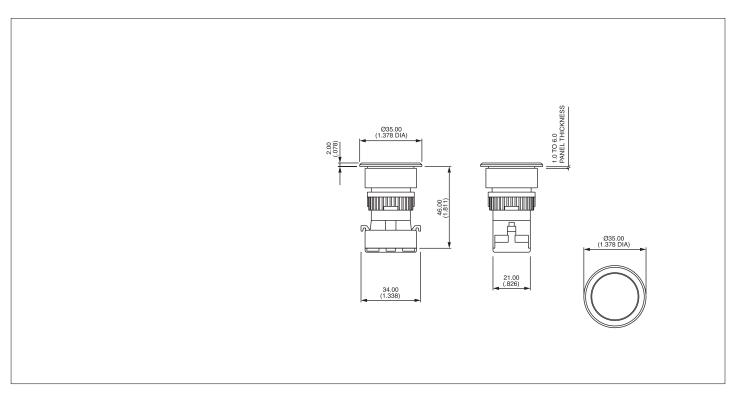
# A02 series Flush mount pushbutton switches & indicators

Panel cut-out Ø30mm

## Ø30mm Flush mount pushbutton



## Ø30mm Flush mount indicator



## A02 series Flush mount pushbutton switches & indicators

Overview

### Pushbutton

| S            | oreen  | +       |            |                        | iired)             | +      | Operator                | · .                 | +       | Switch blo        | ck      |
|--------------|--------|---------|------------|------------------------|--------------------|--------|-------------------------|---------------------|---------|-------------------|---------|
| Bezel        | Colour | Part No | Lamp       | Voltage                | Part No            | Bezel  | Description             | Lamp type           | Part No | Contacts          | Part N  |
| $\mathbf{)}$ | black  | A0263A  | Filament   | 6.3V                   | A0141A             | 0      | Illum, momentary        | Lamp/LED bulb       | A0214Y  | 1 N.O.            | A0250   |
| )            | red    | A0263B  | Filament   | 14V                    | A0141B             | 0      | Illum, maintained       | Lamp/LED bulb       | A0214X  | 1 N.C.            | A0250   |
| $\supset$    | amber  | A0263C  | Filament   | 28V                    | A0141C             | 0      | Non-illum, momentary    |                     | A0215Y  | 2 N.O.            | A0250   |
| $\supset$    | yellow | A0263D  | Filament   | 36V                    | A0141D             | 0      | Non-illum, maintained   |                     | A0215X  | 2 N.C.            | A0250   |
| C            | green  | A0263E  | Filament   | 48V                    | A0141E             | 0      | Illum, indicator        | Lamp/LED bulb       | A02791  | 1 N.O./1 N.C.     | A0250   |
| )            | blue   | A0263F  | Filament   | 60V                    | A0141F             |        |                         | متريا مرادم مارينا  |         |                   |         |
| $\supset$    | clear  | A0263G  | Neon       | 110V                   | A0143G             |        | zel material : silver ( |                     |         |                   |         |
| $\supset$    | white  | A0263J  | Neon       | 220V                   | A0143H             |        | tional black anodise    |                     |         | <b>~</b> • •      |         |
|              |        |         | LED        | 6V red                 | A0142L1            | 'G' to | the end of operato      | <b>r</b> model numb | er.     | Second swit       | ch bloc |
|              |        |         | LED        | 6V green               | A0142L2            |        |                         |                     |         | Contacts          | Part N  |
|              |        |         | LED        | 6V amber               | A0142L3            |        |                         |                     |         |                   |         |
|              |        |         | LED        | 12V red                | A0142M1            |        |                         |                     |         | 1 N.O.            | A025    |
|              |        |         | LED        | 12V green              | A0142M2            |        |                         |                     |         | 1 N.C.            | A025    |
|              |        |         | LED        | 12V amber              | A0142M3            |        |                         |                     |         | 2 N.O.            | A025    |
|              |        |         | LED        | 12V blue               | A0142M4            |        |                         |                     |         | 2 N.C.            | A025    |
|              |        |         | LED        | 12V white              | A0142M5            |        |                         |                     |         | 1 N.O./1 N.C.     | A025    |
|              |        |         | LED        | 24V red                | A0142N1            |        |                         |                     |         |                   |         |
|              |        |         | LED        | 24V green              | A0142N2            |        |                         |                     |         | To achieve 3 or   | 4 nole  |
|              |        |         | LED        | 24V amber              | A0142N3            |        |                         |                     |         | switching, add s  |         |
|              |        |         | LED        | 24V blue               | A0142N4            |        |                         |                     |         | •                 |         |
|              |        |         | LED<br>LED | 24V white              | A0142N5<br>A0142P1 |        |                         |                     |         | switch block fror | n above |
|              |        |         | LED        | 48V red                | A0142P1<br>A0142P2 |        |                         |                     |         | table.            |         |
|              |        |         | LED        | 48V green<br>48V amber | A0142P2<br>A0142P3 |        |                         |                     |         |                   |         |
|              |        |         | LEU        | 48V amper              | AU142P3            |        |                         |                     |         |                   |         |

## Indicator

|   |        |         |            | -                      |                    |   | -                   |                   |         |  |
|---|--------|---------|------------|------------------------|--------------------|---|---------------------|-------------------|---------|--|
| lezel                                   | Colour | Part No | Lamp       | Voltage                | Part No            | Bezel   | Description         | Lamp type         | Part No |  |
| )                                       | black  | A0263A  | Filament   | 6.3V                   | A0141A             | 0   | Illum, indicator    | Lamp/LED bulb     | A02791  |  |
| $\supset$                               | red    | A0263B  | Filament   | 14V                    | A0141B             |   |                     |                   |         |  |
| $\supset$                               | amber  | A0263C  | Filament   | 28V                    | A0141C             | Std be  | zel material · silv | ver anodised alum | inium   |  |
| 000000000000000000000000000000000000000 | yellow | A0263D  | Filament   | 36V                    | A0141D             | For optional black anodised aluminium, add      |                     |                   |         |  |
|   | green  | A0263E  | Filament   | 48V                    | A0141E             | 'G' to the end of <b>operator</b> model number. |                     |                   |         |  |
| )                                       | blue   | A0263F  | Filament   | 60V                    | A0141F             | G to  | the end of oper     | ator model numb   | er.     |  |
| )                                       | clear  | A0263G  | Neon       | 110V                   | A0143G             |   |                     |                   |         |  |
| C                                       | white  | A0263J  | 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<br>LED | 24V green<br>24V amber | A0142N2            |   |                     |                   |         |  |
|   |        |         | LED        | 24V amber<br>24V blue  | A0142N3<br>A0142N4 |   |                     |                   |         |  |
|   |        |         | LED        | 24V biue<br>24V white  | A0142N4<br>A0142N5 |   |                     |                   |         |  |
|   |        |         | LED        | 48V red                | A0142N3            |   |                     |                   |         |  |
|   |        |         | LED        | 46V rea<br>48V green   | A0142P1<br>A0142P2 |   |                     |                   |         |  |
|   |        |         | LED        | 48V amber              | A014212<br>A0142P3 |   |                     |                   |         |  |
|   |        |         |            | 40V driber             | AU142F3            |   |                     |                   |         |  |



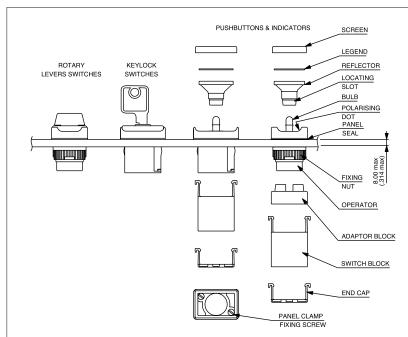
Unsealed switches & indicators (IP40) suffix 01 to the end of the part number. Screen engraving insertable legends, & bi-color LED's please contact APEM For 6.35mm push on tab terminals suffix the switch block part number with SP

APEM

## A02 series Pushbutton switches & indicators

Installation & tools

## Installation guide



#### 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 fxing 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.

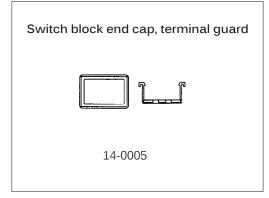
#### SWITCH BLOCK ASSEMBLY

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.

#### Tools



#### Accessories



## **Mouser Electronics**

Authorized Distributor

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Apem:

A0201Y A0204Y A0207Y A0209X A0210Y A0211Y A0212X A0213X A0214Y A0271 A0272 A0273 A0275