

A01 SERIES

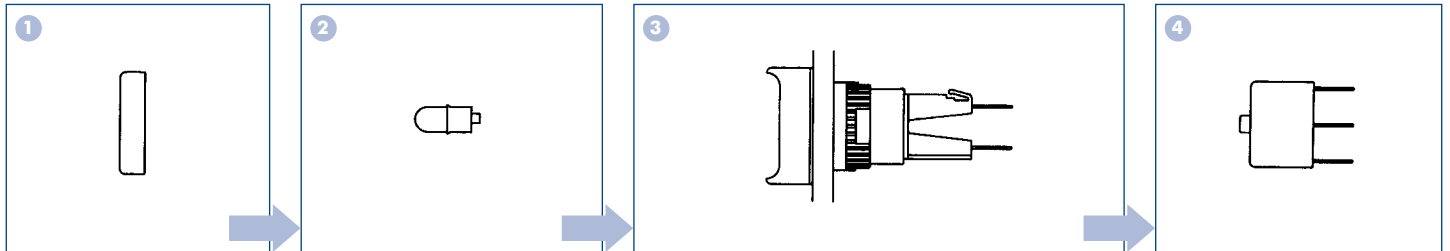
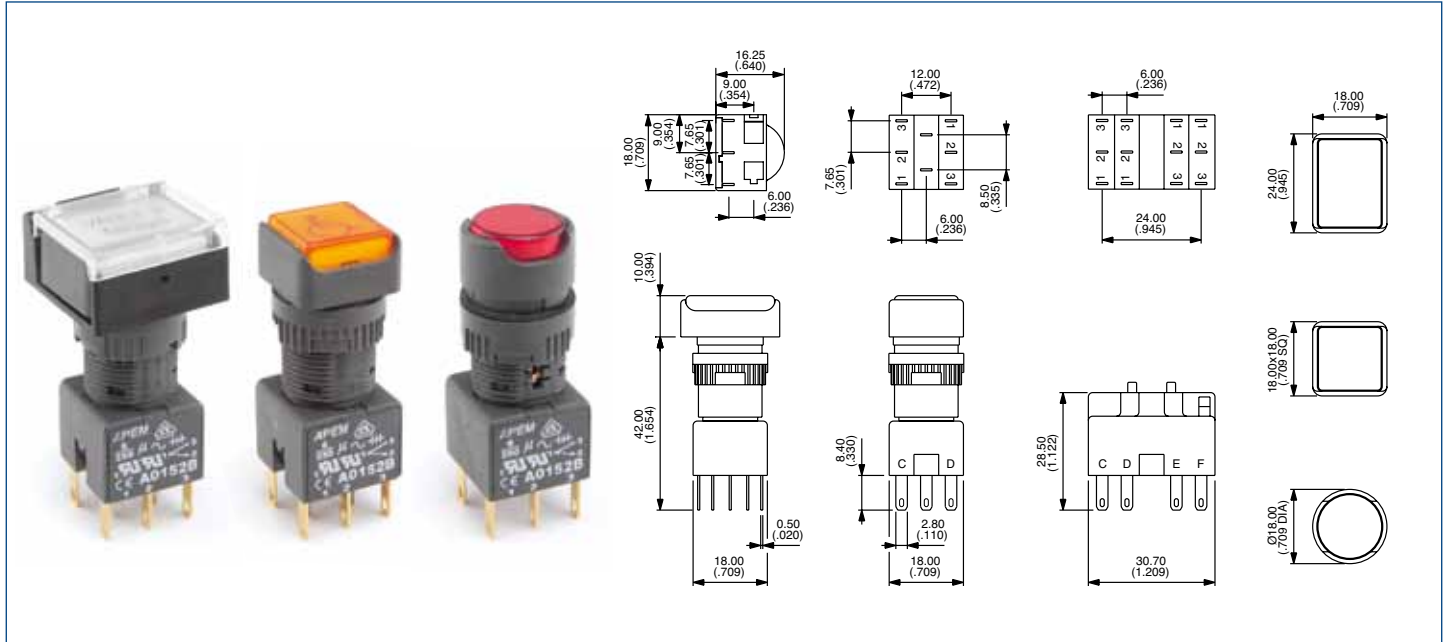
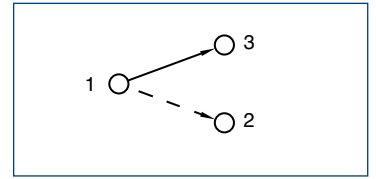
ILLUMINATED OR NON-ILLUMINATED PUSHBUTTON SWITCHES

Panel cut-out Ø16 (.630)

A pushbutton assembly requires:

screen + lamp (if illuminated) + operator + switchblock
 To order these elements, select desired model numbers from tables below.

Example: IP65 rectangular pushbutton, single pole, maintained, red screen and 12V red LED = A0161B, A0142M1, A0101X and A0151B



| Screen | | | Lamp | | | Operator | | | | Switch block | |
|--------|--------|---------|----------|-----------|---------|----------|-------|-----------------------|---------|--------------|---------|
| Bezel | Colour | Part No | Lamp | Voltage | Part No | Pole | Bezel | Description | Part No | No of poles | Part No |
| □ | black | A0161A | Filament | 6.3V | A0141A | 1 or 2 | □ | Illum, momentary | A0101Y | Single pole | A0151B |
| □ | red | A0161B | Filament | 14V | A0141B | 1 or 2 | □ | Illum, maintained | A0101X | Double pole | A0152B |
| □ | amber | A0161C | Filament | 28V | A0141C | 1 or 2 | □ | Non-illum, momentary | A0102Y | Three pole | A0155B |
| □ | yellow | A0161D | Filament | 36V | A0141D | 1 or 2 | □ | Non-illum, maintained | A0102X | Four pole | A0153B |
| □ | green | A0161E | Filament | 48V | A0141E | 3 or 4 | □ | Illum, momentary | A0103Y | | |
| □ | blue | A0161F | Filament | 60V | A0141F | 3 or 4 | □ | Illum, maintained | A0103X | | |
| □ | clear | A0161G | Neon | 110V | A0143G | 3 or 4 | □ | Non-illum, momentary | A0104Y | | |
| □ | white | A0161J | Neon | 220V | A0143H | 3 or 4 | □ | Non-illum, maintained | A0104X | | |
| □ | black | A0162A | LED | 6V red | A0142L1 | 1 or 2 | □ | Illum, momentary | A0105Y | | |
| □ | red | A0162B | LED | 6V green | A0142L2 | 1 or 2 | □ | Illum, maintained | A0105X | | |
| □ | amber | A0162C | LED | 6V amber | A0142L3 | 1 or 2 | □ | Non-illum, momentary | A0106Y | | |
| □ | yellow | A0162D | LED | 12V red | A0142M1 | 1 or 2 | □ | Non-illum, maintained | A0106X | | |
| □ | green | A0162E | LED | 12V green | A0142M2 | 3 or 4 | □ | Illum, momentary | A0107Y | | |
| □ | blue | A0162F | LED | 12V amber | A0142M3 | 3 or 4 | □ | Illum, maintained | A0107X | | |
| □ | clear | A0162G | LED | 12V blue | A0142M4 | 3 or 4 | □ | Non-illum, momentary | A0108Y | | |
| □ | white | A0162J | LED | 12V white | A0142M5 | 3 or 4 | □ | Non-illum, maintained | A0108X | | |
| ○ | black | A0163A | LED | 24V red | A0142N1 | 1 or 2 | ○ | Illum, momentary | A0109Y | | |
| ○ | red | A0163B | LED | 24V green | A0142N2 | 1 or 2 | ○ | Illum, maintained | A0109X | | |
| ○ | amber | A0163C | LED | 24V amber | A0142N3 | 1 or 2 | ○ | Non-illum, momentary | A0110Y | | |
| ○ | yellow | A0163D | LED | 24V blue | A0142N4 | 1 or 2 | ○ | Non-illum, maintained | A0110X | | |
| ○ | green | A0163E | LED | 24V white | A0142N5 | 3 or 4 | ○ | Illum, momentary | A0111Y | | |
| ○ | blue | A0163F | LED | 48V red | A0142P1 | 3 or 4 | ○ | Illum, maintained | A0111X | | |
| ○ | clear | A0163G | LED | 48V green | A0142P2 | 3 or 4 | ○ | Non-illum, momentary | A0112Y | | |
| ○ | white | A0163J | LED | 48V amber | A0142P3 | 3 or 4 | ○ | Non-illum, maintained | A0112X | | |

Unsealed switches (IP40):
 add '01' to end of operator model number

Screen engraving/insertable legends:
 contact APEM Components

Bi-colour LEDs optional

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

A01 SERIES

INDICATORS

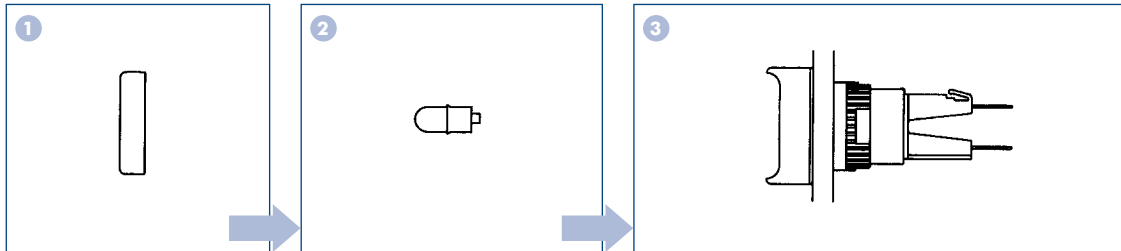
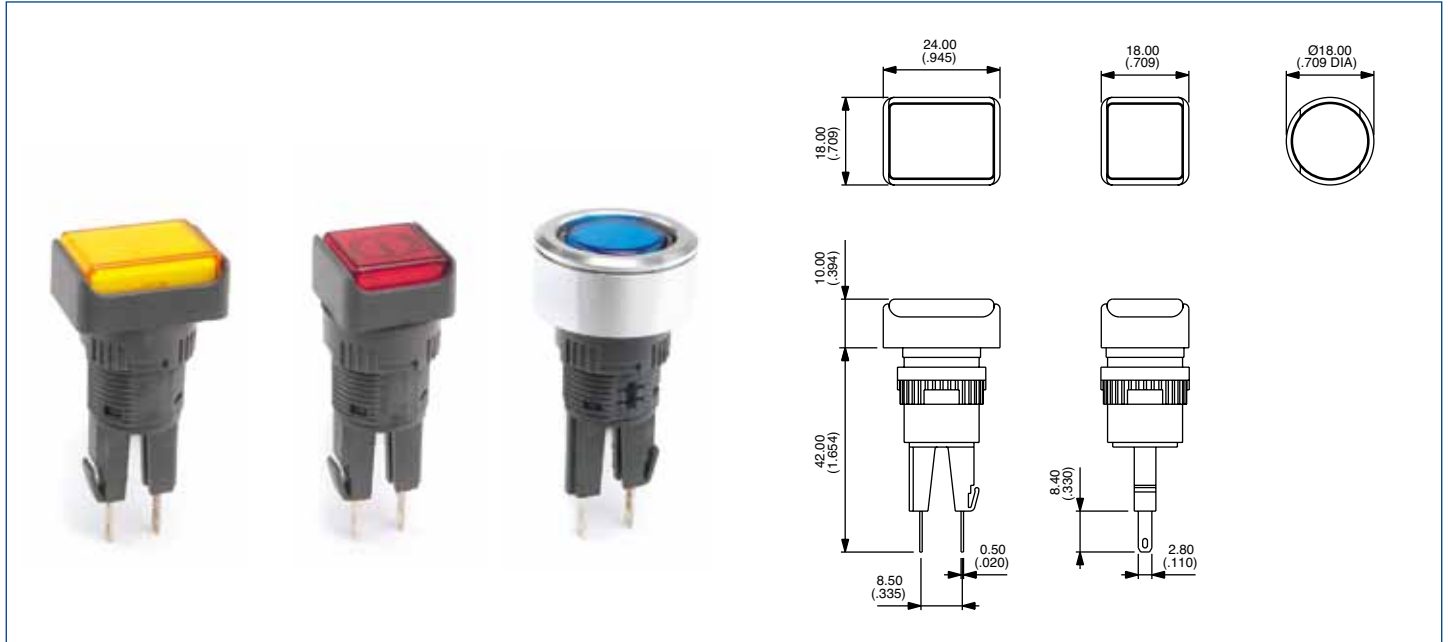
Panel cut-out Ø16 (.630)

An indicator assembly requires:

screen + lamp + operator

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

Example: IP65 rectangular indicator with red screen and 12V red LED = A0161B, A0142M1 and A0171



Screen

| Bezel | Colour | Part No |
|--------------------------|--------|---------|
| <input type="checkbox"/> | black | A0161A |
| <input type="checkbox"/> | red | A0161B |
| <input type="checkbox"/> | amber | A0161C |
| <input type="checkbox"/> | yellow | A0161D |
| <input type="checkbox"/> | green | A0161E |
| <input type="checkbox"/> | blue | A0161F |
| <input type="checkbox"/> | clear | A0161G |
| <input type="checkbox"/> | white | A0161J |
| <input type="checkbox"/> | black | A0162A |
| <input type="checkbox"/> | red | A0162B |
| <input type="checkbox"/> | amber | A0162C |
| <input type="checkbox"/> | yellow | A0162D |
| <input type="checkbox"/> | green | A0162E |
| <input type="checkbox"/> | blue | A0162F |
| <input type="checkbox"/> | clear | A0162G |
| <input type="checkbox"/> | white | A0162J |
| <input type="checkbox"/> | black | A0163A |
| <input type="checkbox"/> | red | A0163B |
| <input type="checkbox"/> | amber | A0163C |
| <input type="checkbox"/> | yellow | A0163D |
| <input type="checkbox"/> | green | A0163E |
| <input type="checkbox"/> | blue | A0163F |
| <input type="checkbox"/> | clear | A0163G |
| <input type="checkbox"/> | white | A0163J |

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 | Part No |
|--------------------------|-------------|---------|
| <input type="checkbox"/> | Indicator | A0171 |
| <input type="checkbox"/> | Indicator | A0172 |
| <input type="checkbox"/> | Indicator | A0173 |

Unsealed switches (IP40):
add '01' to end of operator model number

Screen engraving/insertable legends:
contact APEM Components

Bezel: rectangular square round.

A01 SERIES

ROTARY LEVER SWITCHES

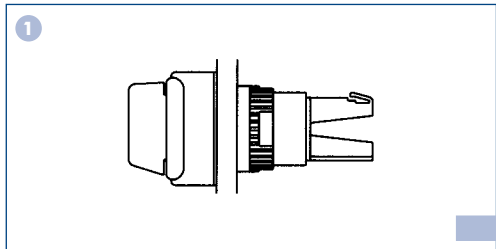
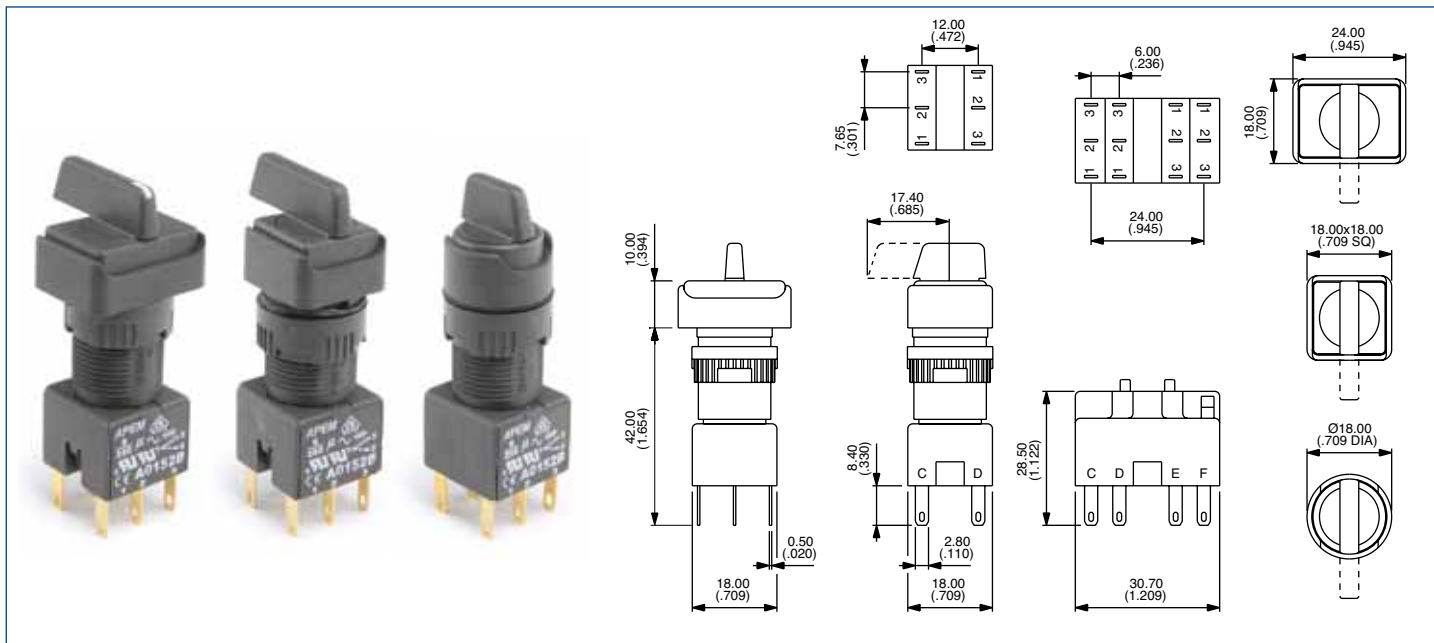
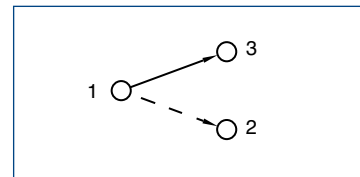
Panel cut-out Ø16 (.630)

A rotary level switch assembly requires:

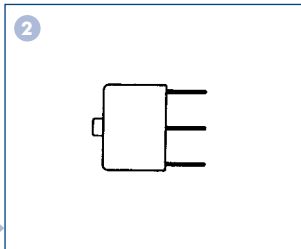
operator + switchblock

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

Example: IP65 rectangular rotary switch with long lever, single pole, 2 positions maintained = A019101 and A0151B



Operator



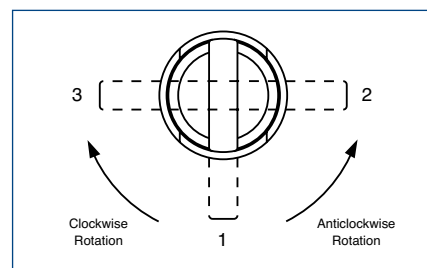
Switch block

| Pole | Bezel | Description | Short lever | Long lever |
|--------|-------|--------------------|-------------|------------|
| 1 or 2 | □ | 2 pos. maintained | A019201 | A019101 |
| 1 or 2 | □ | 2 pos. momentary | A019202 | A019102 |
| 3 or 4 | □ | 2 pos. maintained | A019203 | A019103 |
| 3 or 4 | □ | 2 pos. momentary | A019204 | A019104 |
| 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 |

| No of poles | Part No |
|-------------|---------|
| Single pole | A0151B |
| Double pole | A0152B |
| Three pole | A0155B |
| Four pole | A0153B |

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

Lever Positions



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

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KEYLOCK SWITCHES

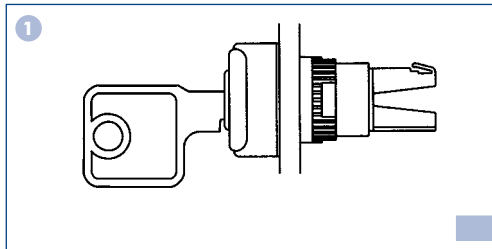
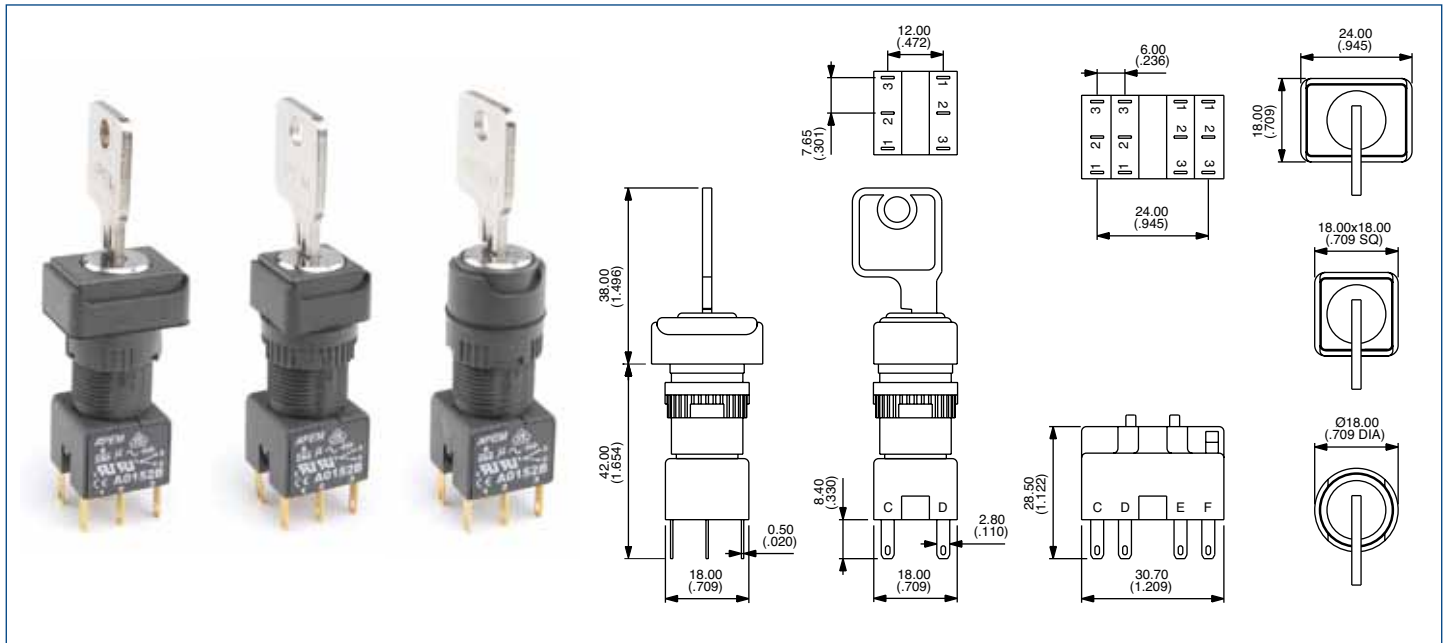
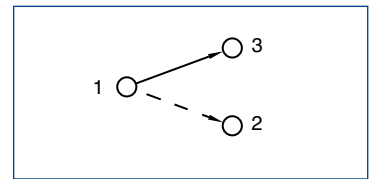
Panel cut-out Ø16 (.630)

An keylock assembly requires:

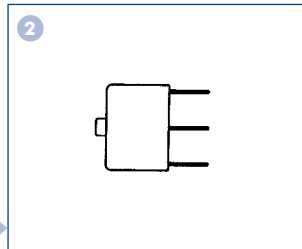
operator + switchblock

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

Example: IP65 rectangular keyswitch, single pole, 2 positions maintained = A018101 and A0151B



Operator



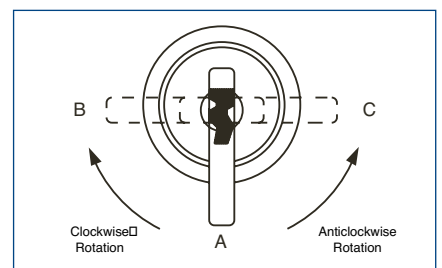
Switch block

| Pole | Bezel | Description | Part No. | Key removable |
|--------|-------|--------------------|----------|---------------|
| 1 or 2 | □ | 2 pos. maintained | A018101 | A-C |
| 1 or 2 | □ | 2 pos. momentary | A018102 | A |
| 3 or 4 | □ | 2 pos. maintained | A018103 | A-C |
| 3 or 4 | □ | 2 pos. momentary | A018104 | A |
| 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 |

| No of poles | Part No |
|-------------|---------|
| Single pole | A0151B |
| Double pole | A0152B |
| Three pole | A0155B |
| Four pole | A0153B |

- 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 Positions



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

A01 SERIES

EMERGENCY STOP SWITCHES

Panel cut-out Ø16 (.630)

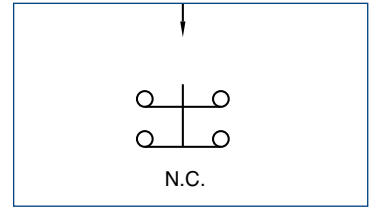
- Prominent Ø 24mm (.944) or optional Ø 40mm (1.575) dia. red mushroom actuator
- Highly reliable positive break switch
- Push to shut off switch, twist to reset to ON

An emergency stop switch assembly requires:

operator + switch block

To order specify with single pole or double pole positive break switch block.

Approved to UL1054/EN 60947-5-1

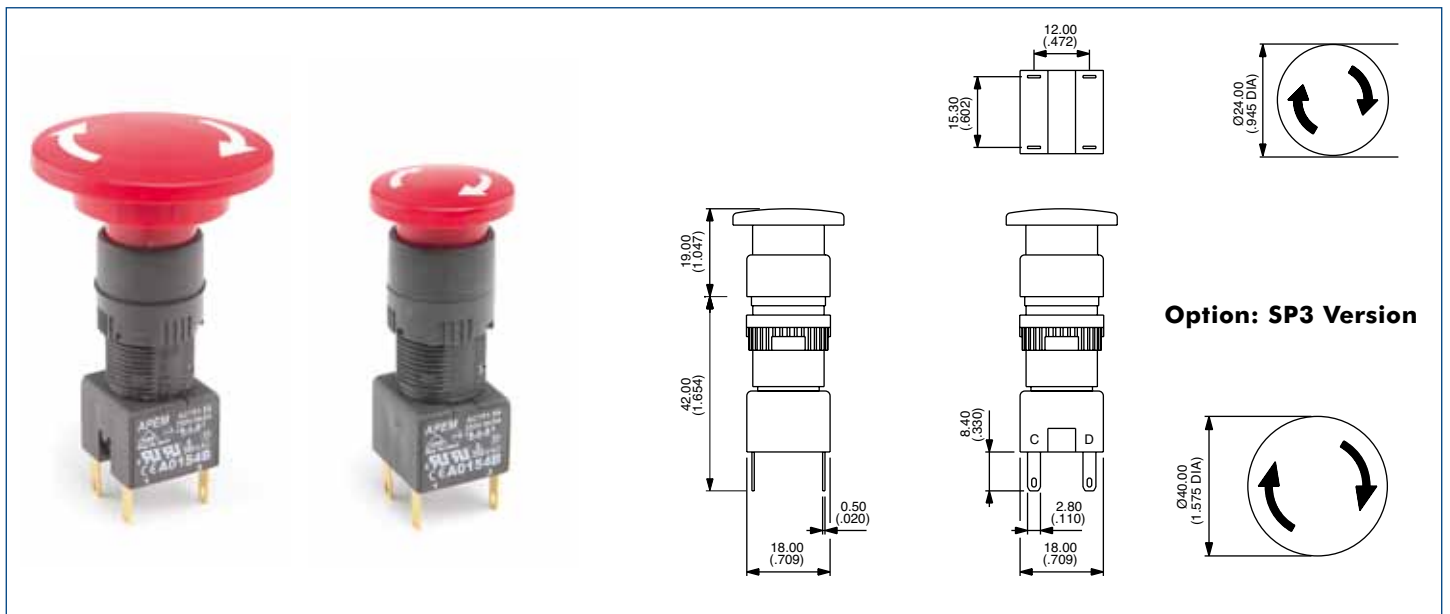


General Specifications

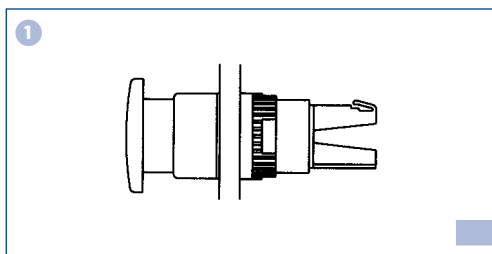
| | |
|--|--|
| Min. Mechanical Life | : 6050 cycles (6 cycles per minute) |
| Operating Force | : 16N – 0.1Nm |
| Operating Temperature | : -20°C to +55°C |
| Solder Heat Resistance | : 350°C, 5 secs (IEC 68-2-2-20Tb, method 2) |
| Degree of Environmental Protection (IEC 529) | : IP65 front of panel IP40 back of panel |
| Switch Terminals | : Solder/quick-connect 2.8mm (.110) (IEC 68-2-20) |

Electrical Specifications

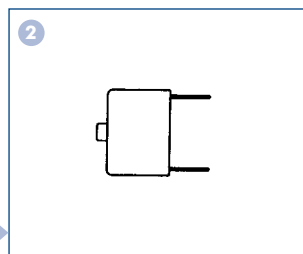
| | |
|-------------------------|----------------------|
| Current/Voltage rating | : 1.5A 250 VAC AC-15 |
| Contact Gap | : >3mm |
| Dielectric test voltage | : 2900V |
| Electrical Life | : >6050 |



Option: SP3 Version



Operator



Switch block

| Bezel | Description | Part No |
|---------------|----------------|-----------|
| ○ | Emergency stop | A01ES |
| Option | | |
| 40Ømm | Emergency stop | A01ES SP3 |

| No of poles | Part No |
|-------------|---------|
| Single pole | A0150B |
| Double pole | A0154B |

Accessories



60Ø Self Adhesive Label

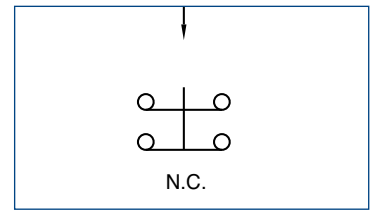
| Description | Part No |
|------------------------|---------|
| Yellow label with text | A01YL1 |
| Yellow label | A01YL2 |

A01 SERIES

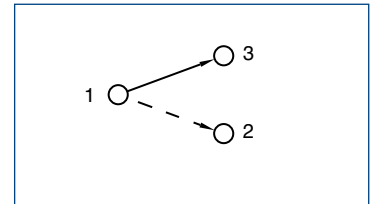
EMERGENCY STOP SWITCHES/MUSHROOM HEAD PUSHBUTTON SWITCHES

Fitted in Enclosures

- Prominent Ø 40mm (1.575) dia. red mushroom actuator, twist to release
- Robust polycarbonate enclosures
- Highly reliable positive break switching on E-stop
- Sealed to IP65
- 6A current rating
- Knockouts for popular conduit sizes
- Double pole changeover switch blocks available for momentary/maintained mushroom head pushbuttons



Emergency Stop



Momentary and Maintained

Technical Specifications

| | |
|-----------------------|--------------------------------------|
| Contact Rating | : 6A 250 VAC/1.5A 250 VAC – E-Stop |
| Dimensions | : 65 x 65 x 57mm |
| Electrical Life | : 50,000 cycles/6050 cycles – E-Stop |
| Operating Temperature | : -20°C – +55°C |



| Description | Part No |
|-------------------|----------------------|
| Emergency Stop | A01ESSP354B + PEA01 |
| Black Momentary | A01MMASP352B + PEA01 |
| Red Momentary | A01MMBSP352B + PEA01 |
| Yellow Momentary | A01MMDSP352B + PEA01 |
| Green Momentary | A01MMESP352B + PEA01 |
| Blue Momentary | A01MMFSP352B + PEA01 |
| Black Maintained | A01MXASP352B + PEA01 |
| Red Maintained | A01MXBSP352B + PEA01 |
| Yellow Maintained | A01MXDSP352B + PEA01 |
| Green Maintained | A01MXESP352B + PEA01 |
| Blue Maintained | A01MXFSP352B + PEA01 |

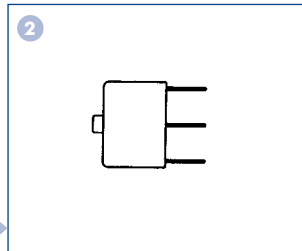
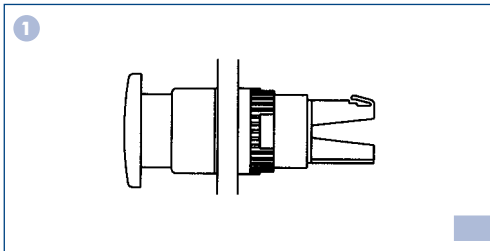
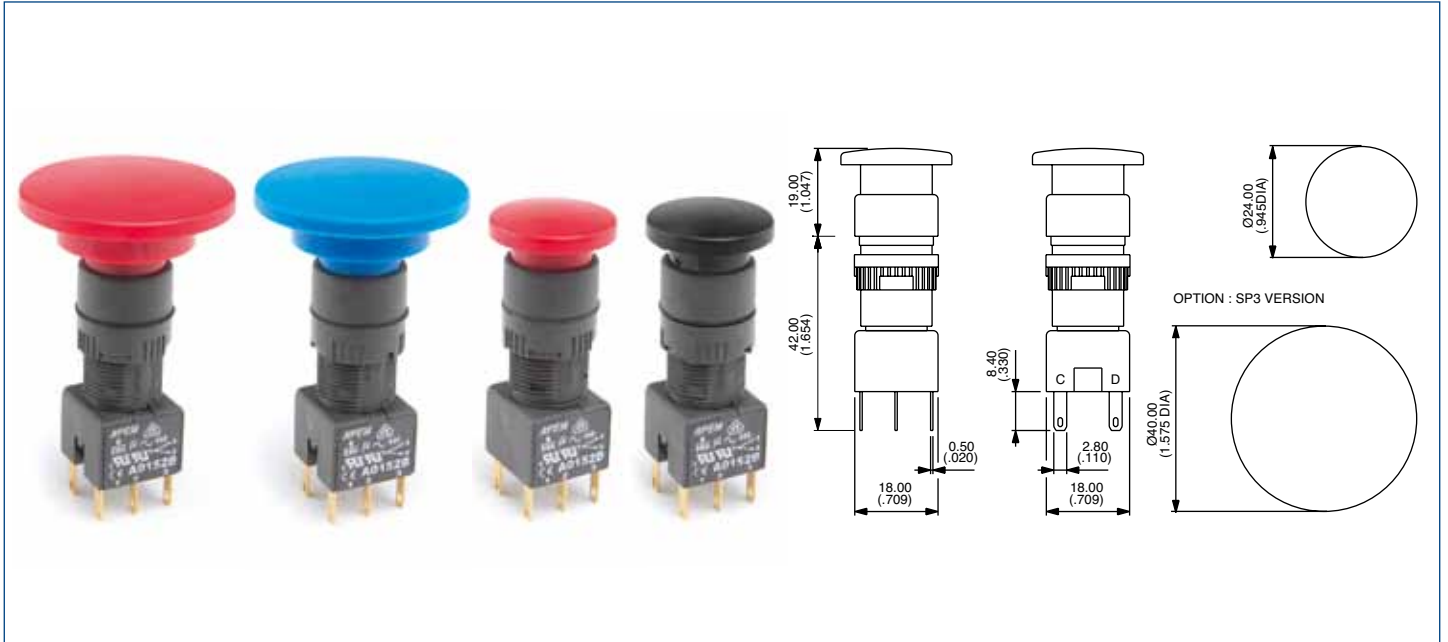
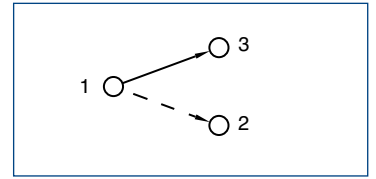
Options
 12A 250V versions or custom printing on mushroom head actuators please contact APEM Components.

A01 SERIES

MUSHROOM HEAD PUSHBUTTON SWITCHES

Panel cut-out Ø16 (.630)

- Prominent Ø 24mm (.944) or optional Ø 40mm (1.575) dia. mushroom actuators
- Momentary and maintained functions. Momentary function versions are unmarked, maintained function versions are twist release (arrows indicate direction of twist)
- Various coloured mushroom actuators are available



Operator

Switch block

| Actuator | Description | Part No |
|----------|-------------------|------------|
| 24mmØ | Black Momentary | A01MMA |
| 24mmØ | Red Momentary | A01MMB |
| 24mmØ | Yellow Momentary | A01MMD |
| 24mmØ | Green Momentary | A01MME |
| 24mmØ | Blue Momentary | A01MMF |
| 24mmØ | Black Maintained | A01MXA |
| 24mmØ | Red Maintained | A01MXB |
| 24mmØ | Yellow Maintained | A01MXD |
| 24mmØ | Green Maintained | A01MXE |
| 24mmØ | Blue Maintained | A01MXF |
| 40mmØ | Black Momentary | A01MMA SP3 |
| 40mmØ | Red Momentary | A01MMB SP3 |
| 40mmØ | Yellow Momentary | A01MMD SP3 |
| 40mmØ | Green Momentary | A01MME SP3 |
| 40mmØ | Blue Momentary | A01MMF SP3 |
| 40mmØ | Black Maintained | A01MXA SP3 |
| 40mmØ | Red Maintained | A01MXB SP3 |
| 40mmØ | Yellow Maintained | A01MXD SP3 |
| 40mmØ | Green Maintained | A01MXE SP3 |
| 40mmØ | Blue Maintained | A01MXF SP3 |

| No of poles | Part No |
|-------------|---------|
| Single pole | A0151B |
| Double pole | A0152B |
| Three pole | A0155B |
| Four pole | A0153B |