A1-A01-A02-A03 series

Industrial controls

Distinctive features

The A01 and A02 series offer ranges of :
- **pushbutton switches, illuminated or not**
- **indicators**
- **2 or 3 position keylock switches**
- **2 or 3 position rotary lever switches**
- **emergency stop switches**

with rectangular, square or round operators.

New!
- **Custom engraved aluminium pushbutton switches, A1 series**
- **Switch enclosures**
- **Pushbutton switches and indicators, A03 series**

❏ **Environmental protection : IP65**

❏ **Modular construction**

❏ **Electrical life : 50.000 cycles min.**

❏ **Screen engraving or insertable legends on request**

❏ **Approvals**

UL 1054   BS RIA 20 Shock & Vibration

EN 61058-1 pending   EN 61058-1   CE

Each sub-assembly has to be ordered separately.

A01 - A1 - A03 series

- Panel cut-out :
  Ø 16 mm (.630), except :
  - flush mount round : Ø 22 mm (.866)
  - flush mount rectangular : 20.60 x 26.70 mm
  - flush mount square : 20.60 x 20.60 mm
  - A1 series : Ø 22 mm (.866)
  - A03 series : round or square Ø 22 (.866)
    flush mount : Ø 30 mm (1.378)

- 1, 2, 3 and 4 poles

- Solder lug/quick-connect terminals

- Contacts : silver, gold plated

- Current/voltage rating :
  6A 250VAC max. - 10mA 5VAC min.

- Lamp : filament, neon or LED

A02 series

- Panel cut-out :
  - round or square : Ø 22 mm (.866)
  - rectangular : 29,5 x 21,5 mm (1.160x.846)
  - flush mount : Ø 30 mm (1.378)

- 1 and 2 poles

- Screw terminals (optional : quick-connect term.)

- Contacts : silver

- Current/voltage rating : 12A 380VAC
  16A 250VAC max. - 25mA 5VAC min.

- Lamp : filament, neon, LED
  or special multi-LED array

Option : end cap terminal guard. Order separately (see end of A02 series).

Packaging unit :
A1 : 25 pieces - A01 : 20 pieces (except pushbuttons: 25 pieces) - A02 : 25 pieces - A03 : 10 pieces.
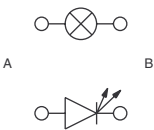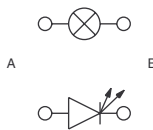**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.

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A1-A01-A02-A03 series

Industrial controls

Specifications for pushbutton, keylock and rotary switches

ELECTRICAL SPECIFICATIONS		
	A01 - A1 - A03	**A02**
• **Function** :	Momentary or maintained action	Momentary or maintained action
• **Current/voltage rating** :	10mA 5VAC min. 6A 250VAC max. - 6A 12VDC max.	25mA 5VAC min. 12A 380VAC - 16A 250VAC max. 12A 12VDC max.
• **Contact gap**	> 1 mm (.039)	Double break 2 x 1,5 mm (.059)
• **Initial contact resistance** :	10mΩ max. at 1A 4VDC	10mΩ max. at 1A 4VDC
• **Insulation resistance** :	50 MΩ min.	50 MΩ min.
• **Dielectric strength** :	750V between open contacts 5KV live to accessible	2KV between open contacts 4KV live to accessible
• **Electrical life (resistive load)** :	50.000 cycles	50.000 cycles
• **Insulation** :	Class 2	Class 2
• **Lamp life** :	LED : 60.000 h min. to 75% relative luminosity - Filament : approx. 5.000 h Neon : approx. 10.000 h	LED : 60.000 h min. to 75 % relative luminosity - Filament : approx. 5.000 h Neon : approx. 10.000 h
• **Lamp circuit diagrams**		

GENERAL SPECIFICATIONS		
	A01 - A1 - A03	**A02**
• **Min. mechanical life** :	Pushb. momentary : 1 million cycles Pushb. maintained : 100.000 cycles Keylock and rotary : 100.000 cycles	Pushb. momentary: 1 million cycles Pushb. maintained : 100.000 cycles Keylock and rotary : 100.000 cycles
• **Panel thickness**	8 mm (.315) max.	8 mm (.315) max.
• **Operating temperature** :	-20°C to +55°C	-20°C to +85°C
• **Solder heat resistance** : (IEC 68-2-20Tb, method 2)	350°C, 5 sec.	350°C, 5 sec.
• **Degree of environmental protection** (IEC 529)	IP 65 front of panel IP 40 back of panel	IP 65 front of panel IP 40 back of panel
• **Lamps** :	Midget Grooved T1 3/4, filament, LED or neon	Midget Grooved T1 3/4, filament, LED or neon Special multi-LED array
• **Switch terminals** :	Solder/quick-connect 2,8 mm (.110)	M3 screws - wire 2 x 0,75 mm² max.
• **Lamp terminals** :	Solder/quick-connect 2,8 mm (.110)	M3 screws Flexible wire 2 x 2,5 mm² max. Rigid wire 4 mm² max.

Specifications for emergency stop switches : see pages 10 and 22.

For screen engraving or film legends, contact APEM.

A1 series

Engraved aluminium flush mounting pushbuttons and indicators

Panel cut-out Ø 22 (.866)

A pushbutton assembly requires :
engraved screen + lamp (if illuminated) + operator + switch block + flush mount bezel.
To order these elements, select desired model numbers from the table below.
Example : pushbutton, round, illuminated, sealed to IP65, latching, single pole with "start"
engraving, 24V blue LED and flush mounting bezel = A1PCA1X103K403.

A1		

Switch Type
P - pushbutton
I - indicator

Bezel
C - round

Illumination
A - illuminated
B - non-illum.

Sealing
0 - unsealed
1 - sealed IP65

Function
0 - indicator
X - latching
Y - momentary

Switch block
0 - indicator
1 - single pole
2 - double pole
5 - three pole
3 - four pole

Accessories
03 - flushmount

Bulb
A1 - filament 6.3V
B1 - filament 14V
C1 - filament 28V
D1 - filament 36V
E1 - filament 48V
F1 - filament 60V
G1 - Neon 110V
H1 - Neon 220V
I1 - Led 6V red
I2 - Led 6V green
I3 - Led 6V amber
J1 - Led 12V red
J2 - Led 12V green
J3 - Led 12V amber
J4 - Led 12V blue
J5 - Led 12V white
K1 - Led 24V red
K2 - Led 24V green
K3 - Led 24V amber
K4 - Led 24V blue
K5 - Led 24V white
L1 - Led 48V red
L2 - Led 48V green
L3 - Led 48V amber

Engraved Screen Options

01 - Front Fog Lights		11 - 'Lock'	
02 - Rear Fog Lights		12 - 'Unlock'	
03 - 'Start'		13 - Rear Window Heating	
04 - Interior Light		14 - Cooling	
05 - Boot Release		15 - Wipers	
06 - Hazard Warning		16 - Washers	
07 - Lights		17 - Fan	
08 - Heating & Ventilation		18 - Horn	
09 - Map Lights		19 - Air recirculation	
10 - Side Lights		20 - Blank	

**OTHER SCREEN ENGRAVING OPTIONS :
contact APEM.**

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A01 series

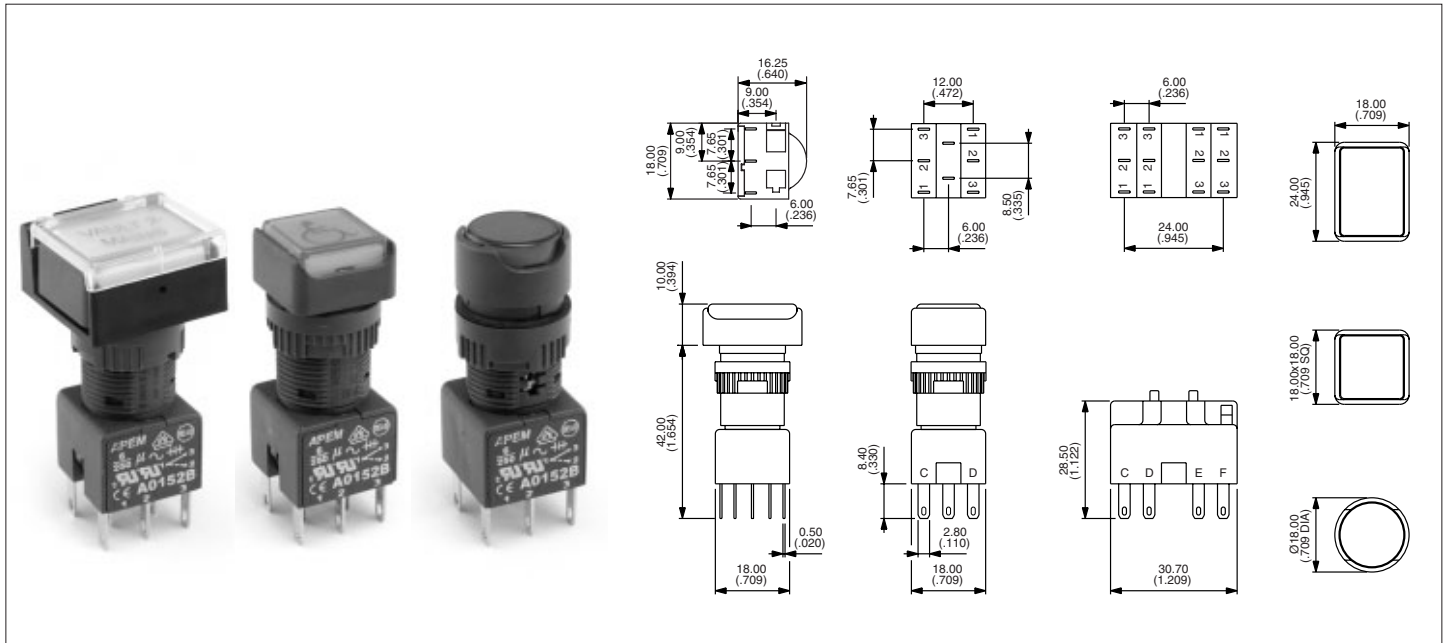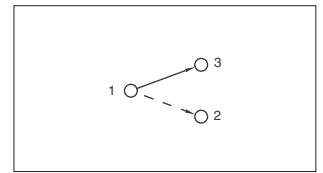## Illuminated or non-illuminated pushbutton switches

Panel cut-out Ø 16 (.630)

A pushbutton assembly requires :
screen + lamp (if illuminated) + operator + switch block.
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 A0151BUL.

❶   ❷   ❸   ❹

Screen

Bezel	Colour	Part No
▭	black	**A0161A**
▭	red	**A0161B**
▭	amber	**A0161C**
▭	yellow	**A0161D**
▭	green	**A0161E**
▭	blue	**A0161F**
▭	clear	**A0161G**
▭	white	**A0161J**
▢	black	**A0162A**
▢	red	**A0162B**
▢	amber	**A0162C**
▢	yellow	**A0162D**
▢	green	**A0162E**
▢	blue	**A0162F**
▢	clear	**A0162G**
▢	white	**A0162J**
○	black	**A0163A**
○	red	**A0163B**
○	amber	**A0163C**
○	yellow	**A0163D**
○	green	**A0163E**
○	blue	**A0163F**
○	clear	**A0163G**
○	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**
ED	24V white	**A0142N5**
LED	48V red	**A0142P1**
LED	48V green	**A0142P2**
LED	48V amber	**A0142P3**

Operator

Pole	Bezel	Description	Part No
1 or 2	▭	Illum, momentary	**A0101Y**
1 or 2	▭	Illum, maintained	**A0101X**
1 or 2	▭	Non-illum, momentary	**A0102Y**
1 or 2	▭	Non-illum, maintained	**A0102X**
3 or 4	▭	Illum, momentary	**A0103Y**
3 or 4	▭	Illum, maintained	**A0103X**
3 or 4	▭	Non-illum, momentary	**A0104Y**
3 or 4	▭	Non-illum, maintained	**A0104X**
1 or 2	▢	Illum, momentary	**A0105Y**
1 or 2	▢	Illum, maintained	**A0105X**
1 or 2	▢	Non-illum, momentary	**A0106Y**
1 or 2	▢	Non-illum, maintained	**A0106X**
3 or 4	▢	Illum, momentary	**A0107Y**
3 or 4	▢	Illum, maintained	**A0107X**
3 or 4	▢	Non-illum, momentary	**A0108Y**
3 or 4	▢	Non-illum, maintained	**A0108X**
1 or 2	○	Illum, momentary	**A0109Y**
1 or 2	○	Illum, maintained	**A0109X**
1 or 2	○	Non-illum, momentary	**A0110Y**
1 or 2	○	Non-illum, maintained	**A0110X**
3 or 4	○	Illum, momentary	**A0111Y**
3 or 4	○	Illum, maintained	**A0111X**
3 or 4	○	Non-illum, momentary	**A0112Y**
3 or 4	○	Non-illum, maintained	**A0112X**

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.

BI-COLOUR LED's optional.

SCREEN ENGRAVING/INSERTABLE LEGENDS : contact APEM

Bezel: ▭ rectangular,   ▢ square,   ○ round,   'Illum' - illuminated,   'Non-illum' - non illuminated
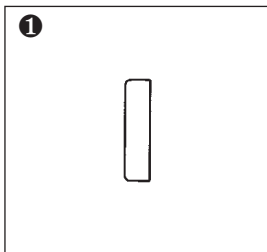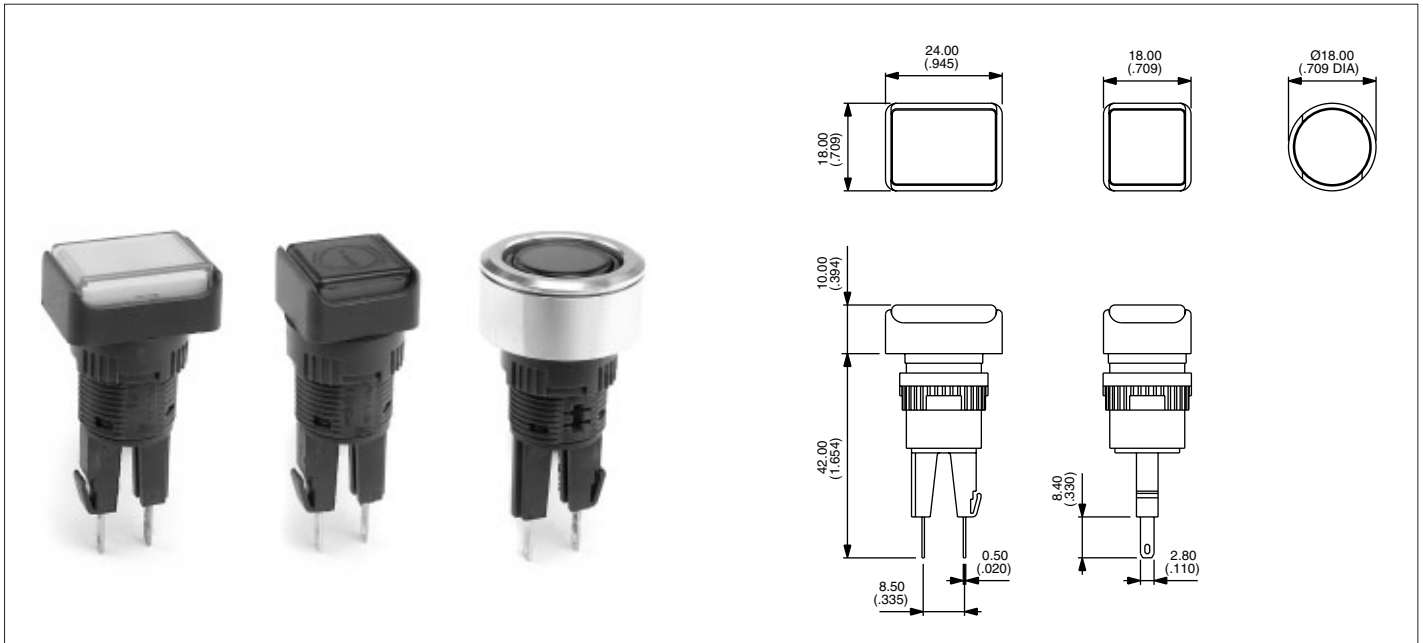
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Indicators

Panel cut-out Ø 16 (.630)
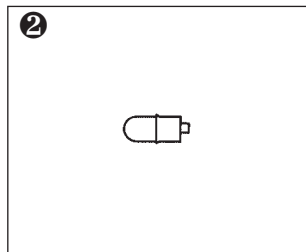
An indicator assembly requires :

screen + lamp + operator.

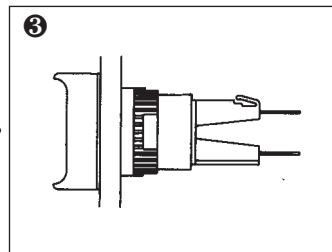To order these elements, select desired model numbers from tables below.

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

Dimensions:
- 24.00 (.945)
- 18.00 (.709)
- Ø18.00 (.709 DIA)
- 18.00 (.709)
- 10.00 (.394)
- 42.00 (1.654)
- 8.40 (.330)
- 0.50 (.020)
- 2.80 (.110)
- 8.50 (.335)

❶ ❷ ❸

Screen

Bezel	Colour	Part No
▭	black	**A0161A**
▭	red	**A0161B**
▭	amber	**A0161C**
▭	yellow	**A0161D**
▭	green	**A0161E**
▭	blue	**A0161F**
▭	clear	**A0161G**
▭	white	**A0161J**
▫	black	**A0162A**
▫	red	**A0162B**
▫	amber	**A0162C**
▫	yellow	**A0162D**
▫	green	**A0162E**
▫	blue	**A0162F**
▫	clear	**A0162G**
▫	white	**A0162J**
○	black	**A0163A**
○	red	**A0163B**
○	amber	**A0163C**
○	yellow	**A0163D**
○	green	**A0163E**
○	blue	**A0163F**
○	clear	**A0163G**
○	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
▭	Indicator	**A0171**
▫	Indicator	**A0172**
○	Indicator	**A0173**

UNSEALED INDICATORS (IP40) :
add "01" to end of **operator** model number.

SCREEN ENGRAVING / INSERTABLE LEGENDS : contact APEM

Bezel: ▭ rectangular, ▫ square, ○ round

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A01 series

Rotary lever switches
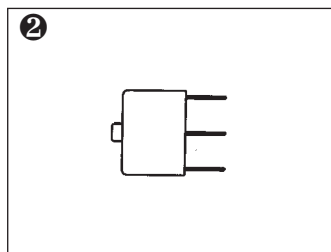
Panel cut-out Ø 16 (.630)

A rotary lever switch assembly requires :
operator + switch block.
To order these elements, select desired model numbers from tables below.
Example : IP65 rectangular rotary switch with long lever, clockwise rotation, single pole,
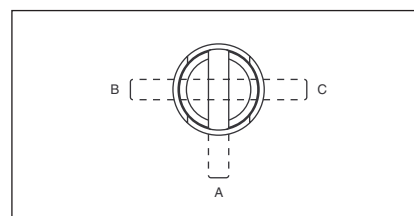2 positions, maintained = A019109 and A0151BUL.

❶ Operator   ❷ Switch block

Pole	Bezel	Description	Short lever	Long lever
1 or 2	▭	2 pos. maintained	A019209	A019109•
1 or 2	▭	2 pos. momentary	A019210	A019110•
3 or 4	▭	2 pos. maintained	A019211	A019111•
3 or 4	▭	2 pos. momentary	A019212	A019112•
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	A019409	A019309•
1 or 2	▢	2 pos. momentary	A019410	A019310•
3 or 4	▢	2 pos. maintained	A019411	A019311•
3 or 4	▢	2 pos. momentary	A019412	A019312•
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	A019609	A019509•
1 or 2	○	2 pos. momentary	A019610	A019510•
3 or 4	○	2 pos. maintained	A019611	A019511•
3 or 4	○	2 pos. momentary	A019612	A019512•
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

Switch block

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

Lever Positions

• Lever Rotation - 2 position switches

The model numbers shown are for switches
with clockwise lever rotation.
For anticlockwise rotation, replace :

09	with	**01**
10	with	**02**
11	with	**03**
12	with	**04**

at the end of the model number.

Optional Engraving on Lever end

See above photo left.
To order, add "WL" to the end of the operator
part No.
Example : A019609WL..

Bezel: ▭ rectangular, ▢ square, ○ round,   'pos' - position,   'mainL' - maintained left,   'momR' - momentary right, etc
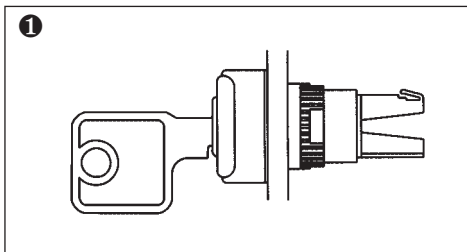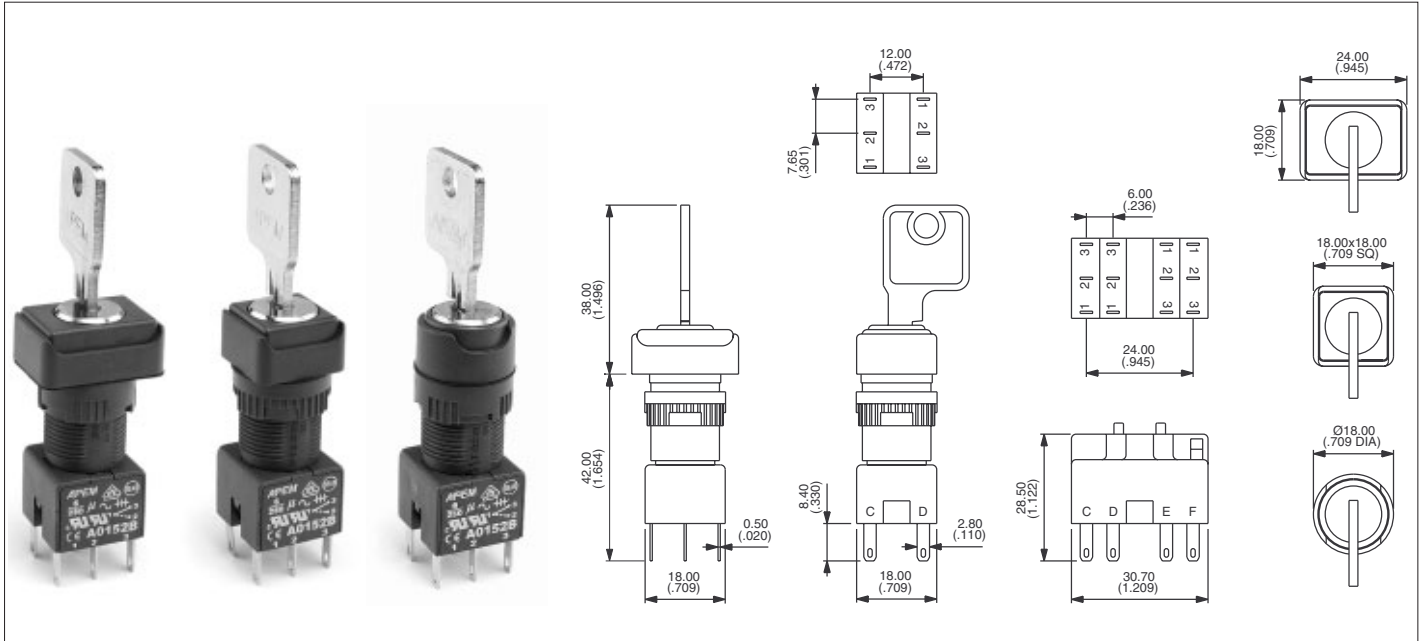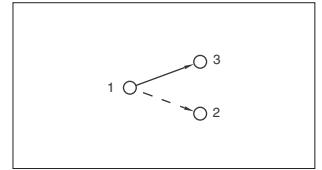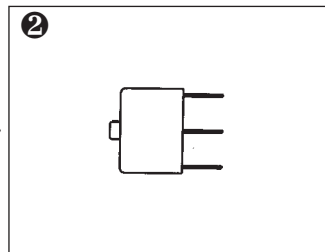
A keylock switch assembly requires :
operator + switch block.
To order these elements, select desired model numbers from tables below.
Example : IP65 rectangular keyswitch, clockwise rotation, single pole, 2 positions, maintained
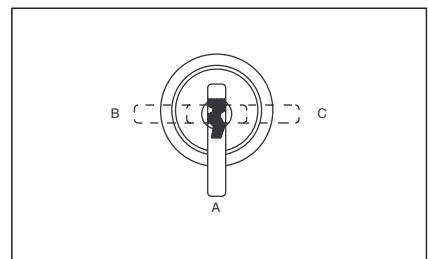= A018125 and A0151BUL.

Operator

Pole	Bezel	Description	Part No	Key removable
1 or 2	▭	2 pos. maintained	**A018123**	A
1 or 2	▭	2 pos. maintained	**A018125•**	A-B
1 or 2	▭	2 pos. momentary	**A018124•**	A
3 or 4	▭	2 pos. maintained	**A018127•**	A-B
3 or 4	▭	2 pos. momentary	**A018128•**	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	**A018223**	A
1 or 2	▢	2 pos. maintained	**A018225•**	A-B
1 or 2	▢	2 pos. momentary	**A018224•**	A
3 or 4	▢	2 pos. maintained	**A018227•**	A-B
3 or 4	▢	2 pos. momentary	**A018228•**	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	**A018323**	A
1 or 2	○	2 pos. maintained	**A018325•**	A-B
1 or 2	○	2 pos. momentary	**A018324•**	A
3 or 4	○	2 pos. maintained	**A018327•**	A-B
3 or 4	○	2 pos. momentary	**A018328•**	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

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

Switch block

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

NON-REMOVABLE KEY POSITIONS / ON-ON-ON FUNCTION : contact APEM.

Key Positions

• Key Rotation - 2 position switches

The model numbers shown are for switches
with clockwise key rotation.
For anticlockwise rotation, replace :

25	with	**01**
24	with	**02**
27	with	**03**
28	with	**04**

at the end of the model number.

2 standard keys are supplied.
20 key barrel types available from stock.

G

A01 series

Emergency stop switches

Panel cut-out Ø 16 (.630)

- **Prominent 24 mm (.944) dia. or optional 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 / EN 60947-5-1**

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

N.C.
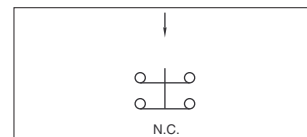
General specifications
- Min. mechanical life : 6.050 cycles (6 cycles per minute)
- Operating force / torque : 16 N / 0,1 Nm
- Operating temperature : -20°C to +55°C
- Solder heat resistance : 350°C, 5 secs (IEC 68-2-2-20Tb, method 2)
- Degree of environmental protection (IEC 529) :
  IP65 front of panel, IP40 back of panel
- Switch terminals : solder/quick-connect 2,8 mm (.110) (IEC 68-2-20)

Electrical specifications
- Current/voltage rating :
  1,5A 250VAC   AC-15
- Contact gap : > 3 mm (.118)
- Dielectric strength : 2.900V
- Electrical life : 6.050 cycles

Option : SP3 version

❶

❷
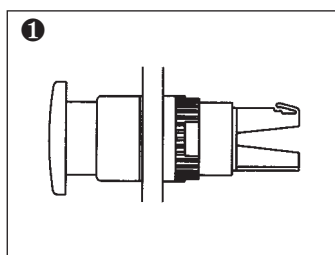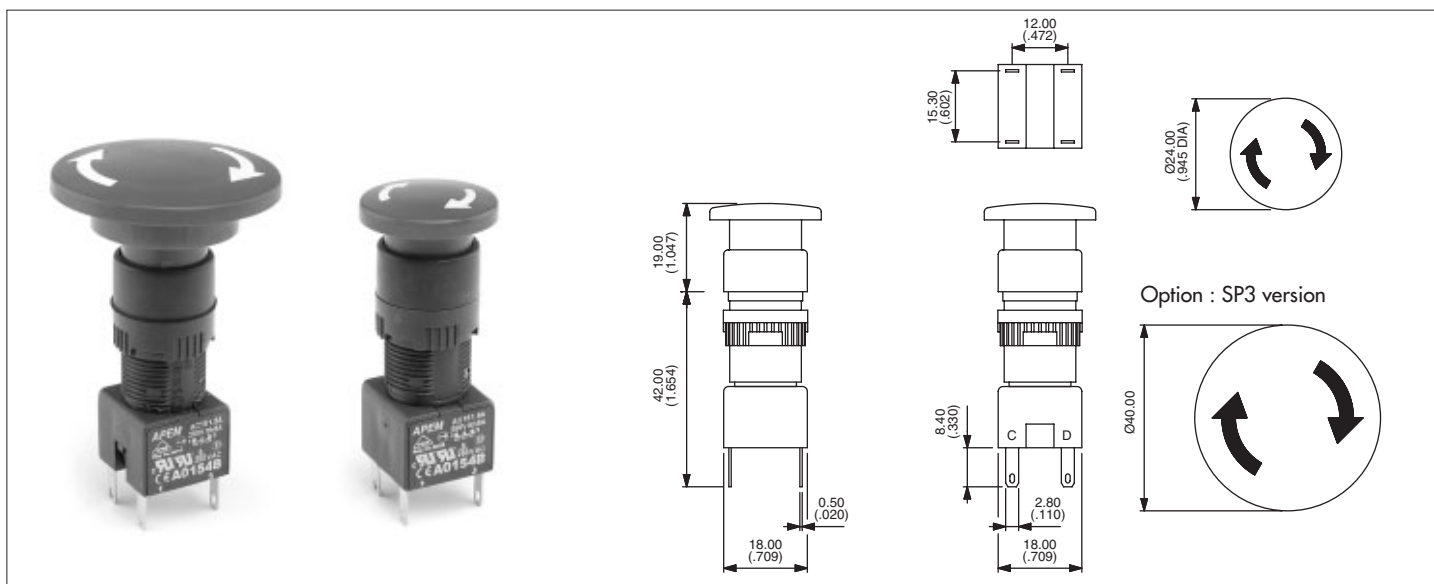
Operator

Description	Part No
24 mm Ø Emergency stop	**A01ES**
40 mm Ø Emergency stop	**A01ES SP3**
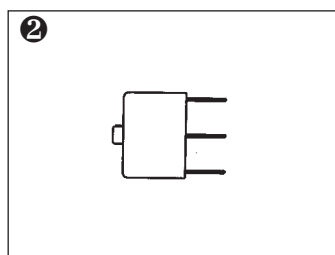
Switch block

No of poles	Part No
Single pole	**A0150BUL**
Double pole	**A0154BUL**

Accessory

60 mm Ø Self Adhesive Label

Description	Part No
Yellow label with text	**A01YL1**
Yellow label	**A01YL2**

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A01 series

Emergency stop switches/mushroom head pushbutton switches

Fitted in enclosures

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

N.C.
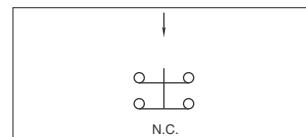
Emergency stop
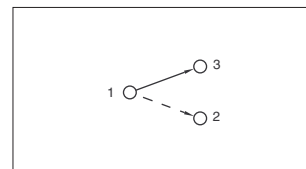
Momentary & maintained

Technical specifications

- Contact rating : Pushbutton switch : 6A 250VAC - E-Stop : 1,5A 250VAC
- Dimensions : 65 x 65 x 57 mm
- Electrical life : Pushbutton switch : 50 000 cycles - E-Stop : 6 050 cycles
- Operating temperature : -20°C to +55°C

Ø40.0
(1.575 DIA)

17.5
(.689)

55.0
(2.167)

65.0 SQUARE
(2.561)

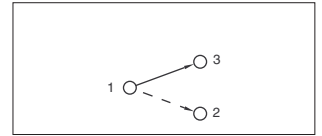| Description	Part No
Emergency stop	**A01ESSP354B + PEA01**
Black momentary	**A01MMASP352B + PEA01**
Red momentary	**A01MMBSP352B + PEA01**
Yellow momentary	**A01MMDSP352B + PEA01**
Green momentary	**A01MMESP352B + PEA01**
Blue momentary	**A01MMFSP352B + PEA01**
Black maintained	**A01MXASP352B + PEA01**
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 : contact APEM.

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A01 series

Mushroom head pushbutton switches

Panel cut-out Ø 16 (.630)

- **Prominent 24 mm (.944) dia. or optional 40 mm (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.**

Option : SP3 version

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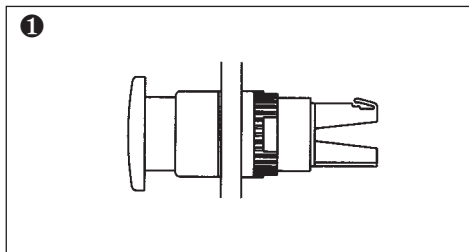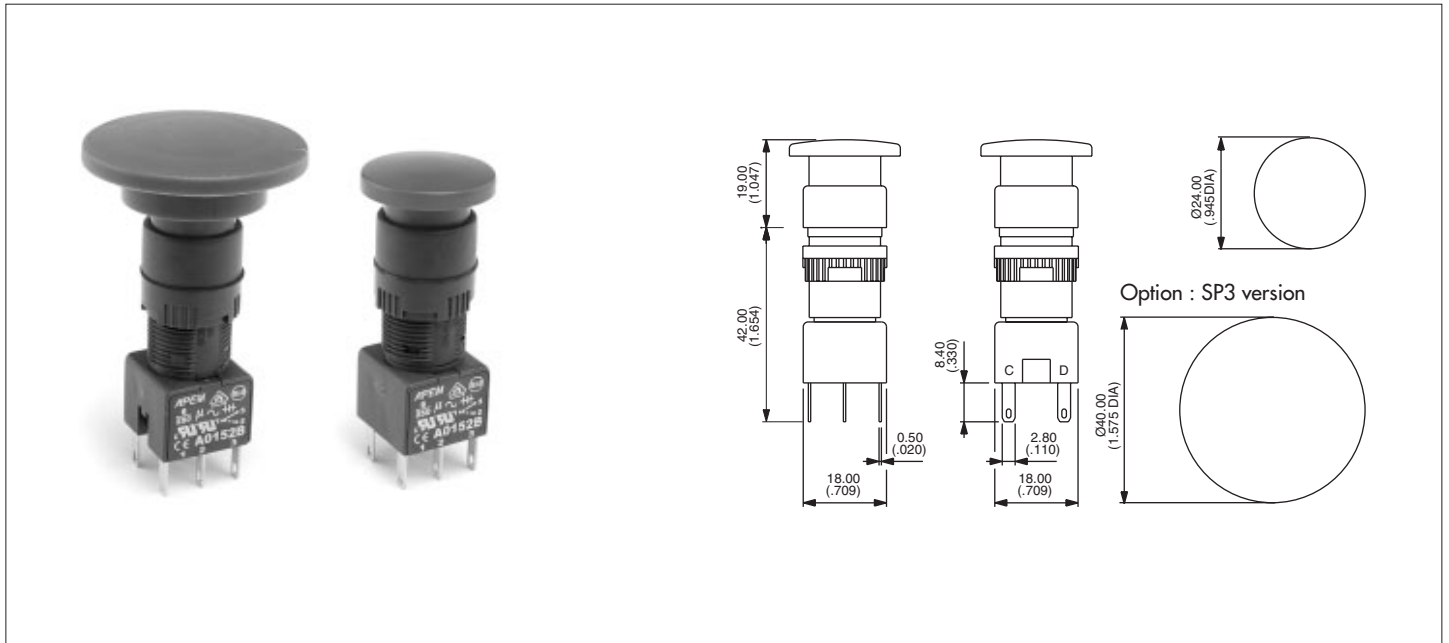
Operator
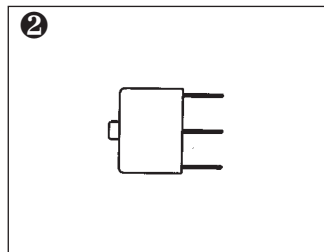
Actuator	Description	Part No
24mmØ	Black momentary	**A01MMA**
24mmØ	Red momentary	**A01MMB**
24mmØ	Yellow momentary	**A01MMD**
24mmØ	Green momentary	**A01MME**
24mmØ	Blue momentary	**A01MMF**
24mmØ	Black maintained	**A01MXA**
24mmØ	Red maintained	**A01MXB**
24mmØ	Yellow maintained	**A01MXD**
24mmØ	Green 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**

Switch block

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

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FLUSH MOUNTING BEZELS

Dark grey plastic material - supplied with sealing washer
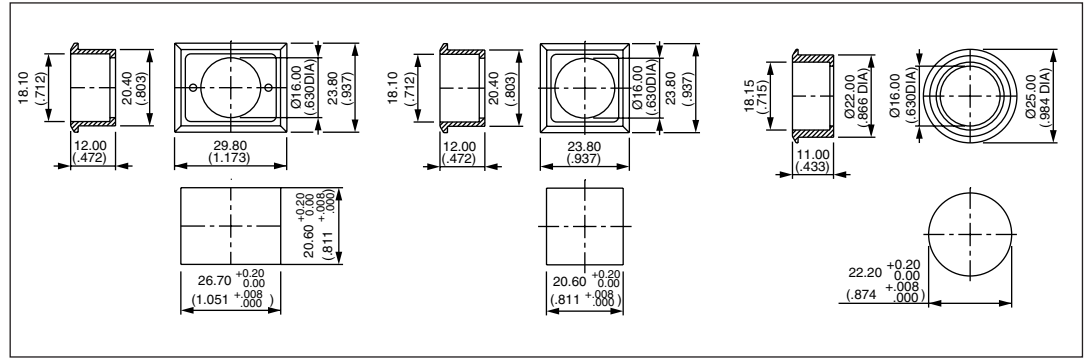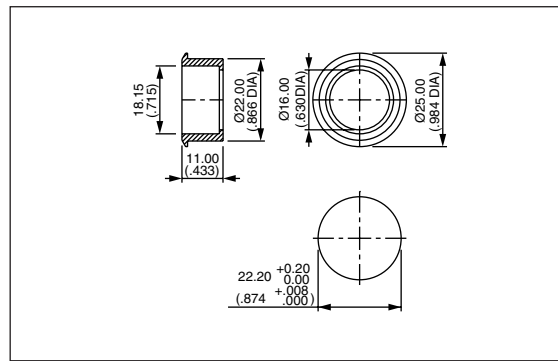
Rectangular **A01FM1**   Square **A01FM**   Round **A01FM2**
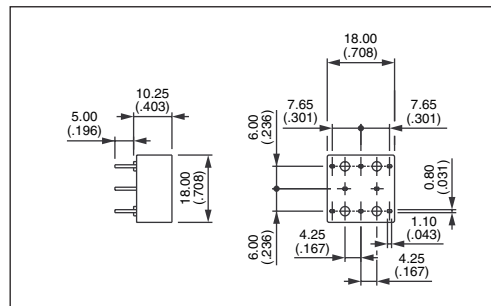
FLUSH MOUNTING BEZELS

Metal versions

Round, anodised aluminium **A01FMM**
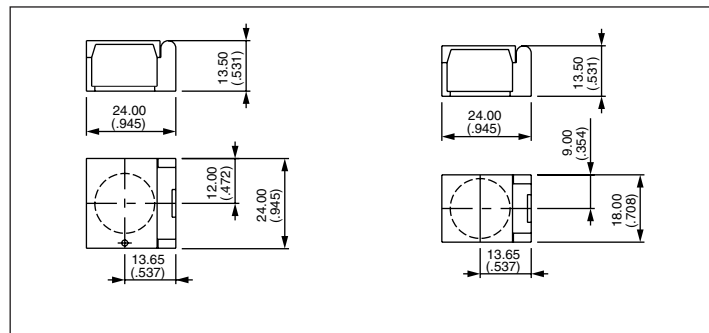Round, matt black **A01FMMG**

PCB SOCKET

Single pole, non illuminated	**A01PC1**
Double pole, non illuminated	**A01PC2**
Single pole, illuminated	**A01PC3**
Double pole, illuminated	**A01PC4**
Indicator	**A01PC5**
Single pole, E-stop	**A01PC6**
Double pole, E-stop	**A01PC7**

FLAPGUARDS

Rectangular **A01FG1**   Square/round **A01FG2**

A1-A01 series

Industrial controls

Accessories

METAL GUARDS

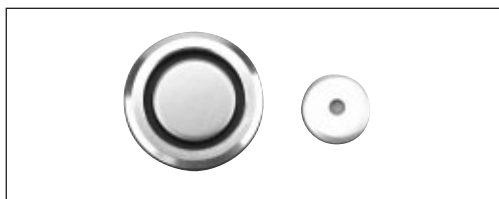→ Slot as alternative to Ø 2 mm hole - Material : 1 mm thick aluminium.

Rectangular **A01MG1**   Square **A01MG**   Round, natural **A01MG2**
                                                          Matt black **A01MG2G**
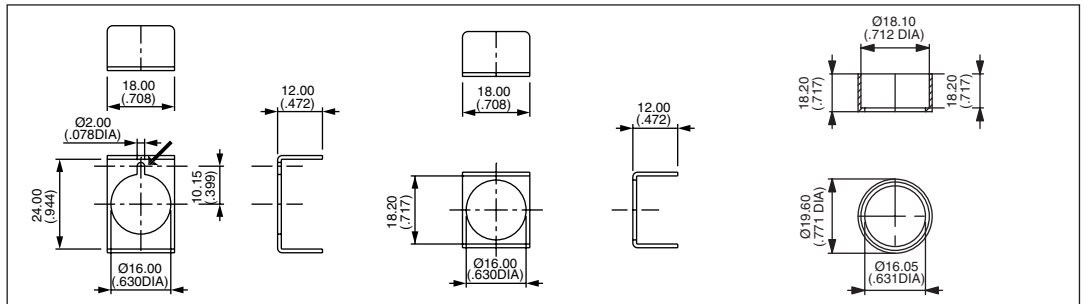
ANTI ROTATION RING

Recommended to prevent product rotation

A01LW
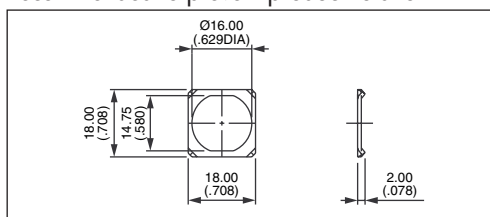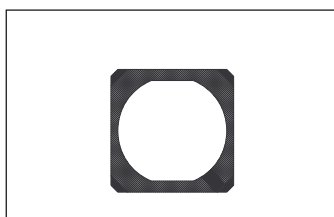
ALUMINIUM SCREENS

For non-illuminated pushbuttons   For illuminated pushbuttons

A0163AL   **A0163AL1**

SWITCHBLOCK TERMINAL GUARDS

2 way **A01RTC2**   8 way **A01RTC8**

BLANKING PLUGS

Round **A0133**   Square **A0132**   Rectangular **A0131**

RESISTOR ASSEMBLY

A0152B + RISSP
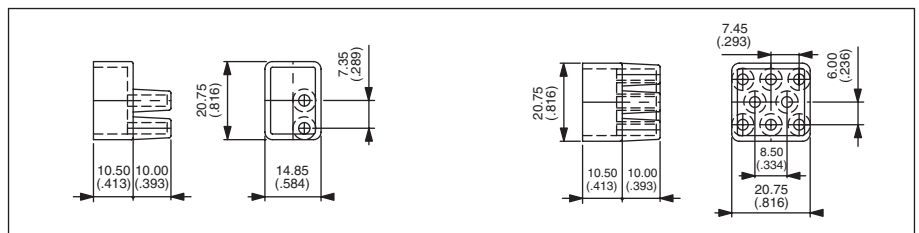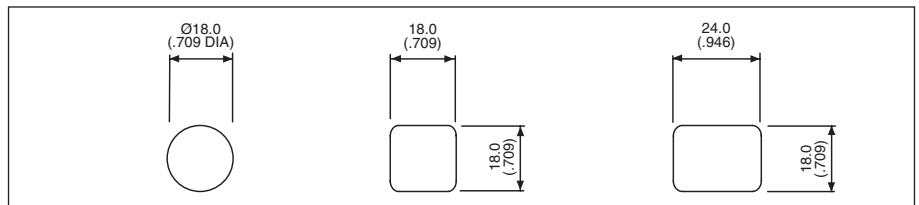
Resistor assembly - 2 stage illumination

(DIM) normally closed   (BRIGHT) normally open
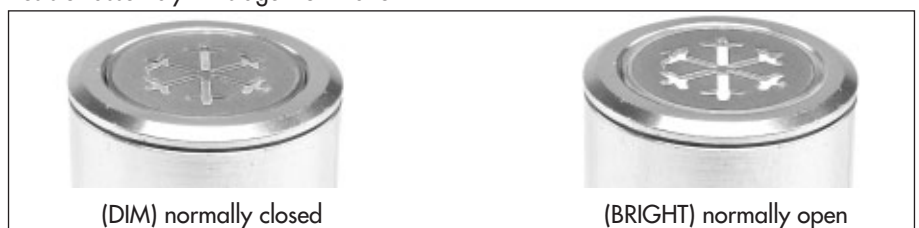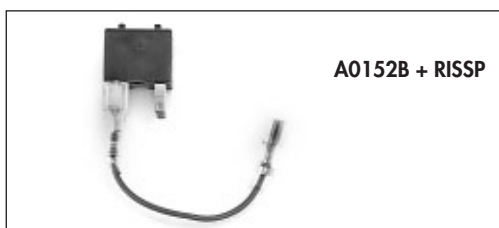
Modular construction / panel mounting

EMERGENCY STOP

ROTARY LEVER SWITCHES

KEYLOCK SWITCHES

PUSHBUTTONS & INDICATORS

SCREEN
LEGEND
REFLECTOR
LOCATING SLOT
BULB
POLARISING DOT
PANEL
SEAL
FIXING NUT
OPERATOR
LATCH
SWITCH BLOCK

PANEL CUT-OUT

Round & square operators only

Ø16.00 0.00/+0.30
(.629 DIA   .000/+.011)

7.25 (.285)

1.50 (.059)

Rectangular operators only

Ø16.00 0.00/+0.30
(.629 DIA   .000/+.011)

Ø2.00 (.078 DIA)

10.50 (.413)

Max. panel thickness : 8 mm (.315)

PANEL MOUNTING ASSEMBLY

• Drill/punch hole shaped as above.

• 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 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.

SWITCH BLOCK

To assemble switch block to front operator, TAKE CARE TO LINE UP SWITCH BLOCK WITH FRONT OPERATOR. Once in position, slide on to front operator. NB. : 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.

FIXING NUT KEY

30-0001

BULB REMOVER

30-0002

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