



A1 - A03 SERIES

INDUSTRIAL CONTROLS

Distinctive features and specifications

- ❑ 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 

ELECTRICAL SPECIFICATIONS	
<ul style="list-style-type: none"> • Function : • Current/voltage rating : • Contact gap • Initial contact resistance : • Insulation resistance : • Dielectric strength : • Electrical life (resistive load) : • Insulation : • Lamp life : • Lamp circuit diagrams 	<p style="text-align: center;">Momentary or maintained action 10mA 5VAC min. 6A 250VAC max. - 6A 12VDC max.</p> <p style="text-align: center;">> 1 mm (.039)</p> <p style="text-align: center;">10m max. at 1A 4VDC</p> <p style="text-align: center;">50 M min.</p> <p style="text-align: center;">750V between open contacts 5KV live to accessible</p> <p style="text-align: center;">50.000 cycles</p> <p style="text-align: center;">Class 2</p> <p style="text-align: center;">LED : 60.000 h min. to 75% relative luminosity - Filament : approx. 5.000 h Neon : approx. 10.000 h</p> <div style="text-align: center;">   </div>

GENERAL SPECIFICATIONS	
<ul style="list-style-type: none"> • Min. mechanical life : • Panel thickness • Operating temperature : • Solder heat resistance : (IEC 68-2-20Tb, method 2) • Degree of environmental protection (IEC 529) • Switch terminals : • Lamp terminals : 	<p style="text-align: center;">Pushb. momentary : 1 million cycles Pushb. maintained : 100.000 cycles</p> <p style="text-align: center;">8 mm (.315) max.</p> <p style="text-align: center;">-20°C to +55°C</p> <p style="text-align: center;">350°C, 5 sec.</p> <p style="text-align: center;">IP 65 front of panel IP 40 back of panel</p> <p style="text-align: center;">Midget Grooved T1_{3/4} filament, LED or neon</p> <p style="text-align: center;">Solder/quick-connect 2,8 mm (.110)</p> <p style="text-align: center;">Solder/quick-connect 2,8 mm (.110)</p>

Dimensions : first dimensions are in mm while inches are shown as bracketted numbers.
Dimensions, specifications and data shown in this data sheet are subject to change without notice.

A1 SERIES

ENGRAVED ALUMINIUM FLUSH MOUNTING PUSHBUTTONS AND INDICATORS

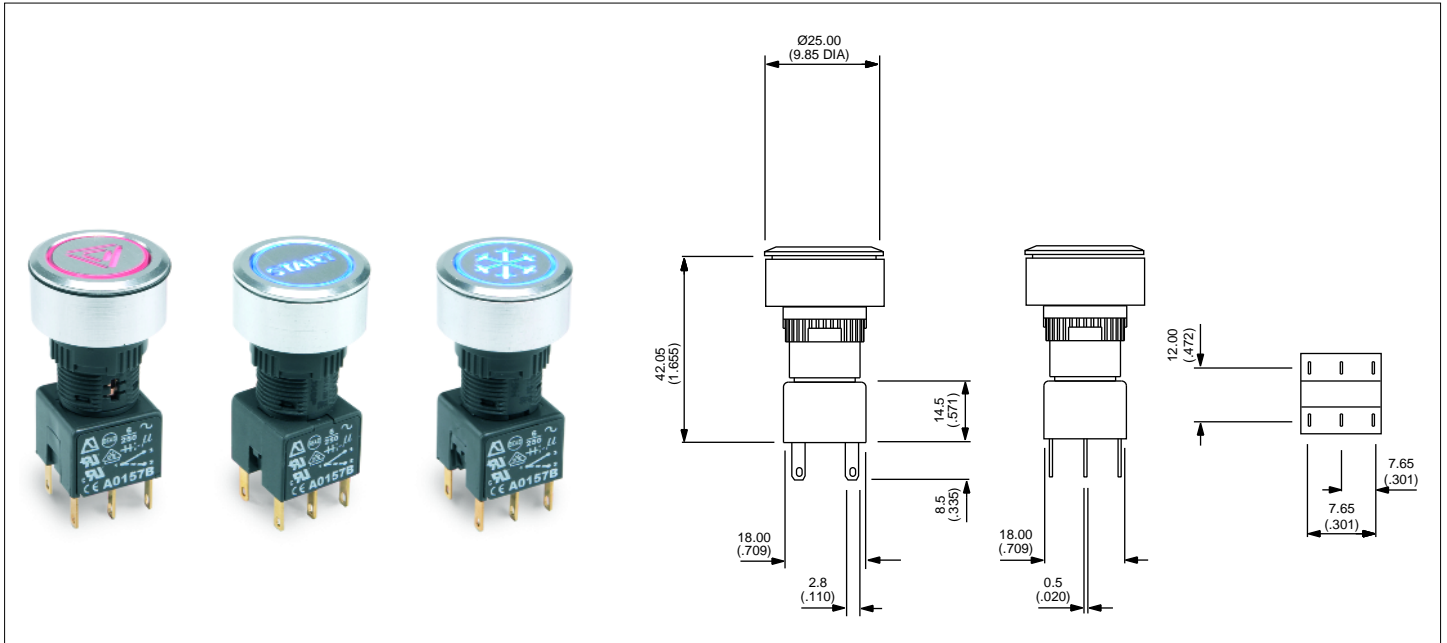
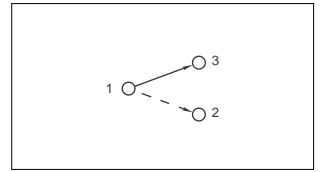
Panel cut-out Ø 22 (.866)

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									

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.

A03 SERIES

ILLUMINATED OR NON-ILLUMINATED PUSHBUTTON SWITCHES AND INDICATORS

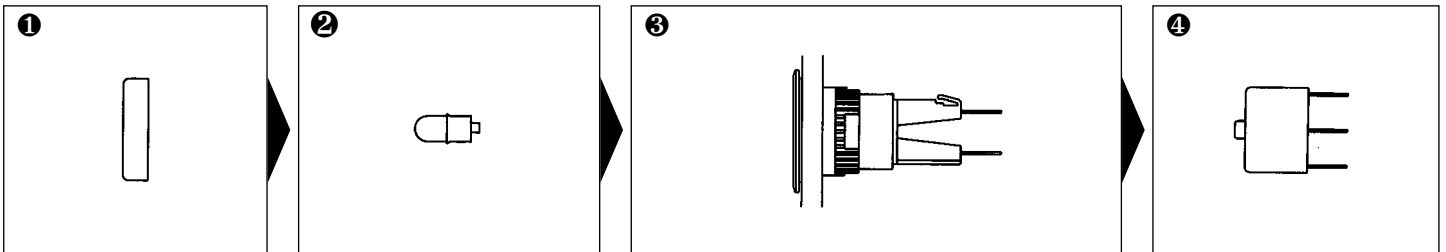
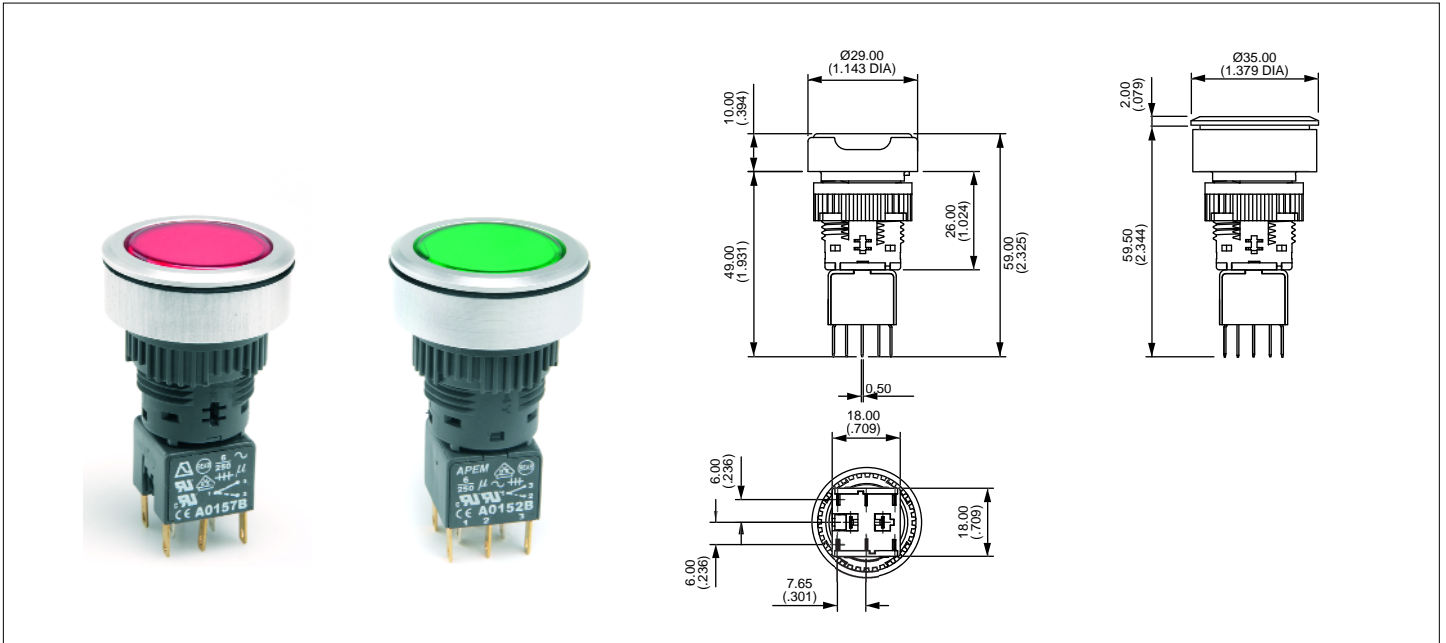
Panel cut-out Ø 22 (.866) or 30 (1.181) - Plastic or metal flush mounting bezel

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 A0151B.



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 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