

A01 series

Pushbutton switches & indicators

Distinctive features and specifications

A01_AX1607USR1



- ❑ Panel Sealed to IP65
- ❑ Single pole to four pole changeover
- ❑ Custom engraving or film legends options
- ❑ Push on tab terminals
- ❑ 6A 250VAC

ELECTRICAL SPECIFICATIONS

- **Current/Voltage Rating** : 10mA 5VAC min, 6A 250VAC, 6Amp 12VDC
- **Initial Contact Resistance** : 10mΩ max at 1A 4VDC
- **Insulation Resistance** : 50MΩ min
- **Dielectric Strength** : 750V between open contacts, 5KV live to accessible
- **Electrical Life** : 50,000 cycles min
- **Contact Gap** : >1mm (0.039)
- **Insulation** : Class 2
- **Lamp Life** : LED, 60,000 hours to 75% relative luminosity filament, approx. 5000 hours neon, approx. 10,000 hours

MECHANICAL SPECIFICATIONS

- **Mechanical Life** : (operator) Momentary, 1 million cycles, maintained 100,000 cycles
- **Lamp** : Midget grove T1 ¾ filament, neon or LED
- **Terminals** : Solder/quick connect 2.8mm (0.110)

GENERAL SPECIFICATIONS

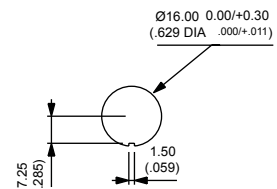
- **Operating Temperature** : -20°C to +55°C
- **Solder Heat Resistance** : 350°C for 5 seconds
- **Sealing** : Panel sealed to IP65, rear of panel IP40

AGENCY APPROVALS

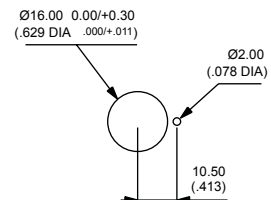


PANEL CUT OUT

Round & Square bezel operators only



Rectangular bezel operators only

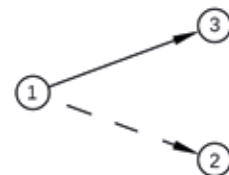


Max panel thickness 8mm (0.314)

MATERIALS

- **Screens** : PC
- **Reflector Assembly** : PC
- **Operator** : PBT
- **Nut** : ABS
- **Camtrack Momentary** : PPE
- **Camtrack Maintained** : PPSU
- **Switch Block 1 & 2 Pole** : PBT
- **Switch Block 3 & 4 Pole** : PEI
- **Contacts** : Gold plated silver

CIRCUIT



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



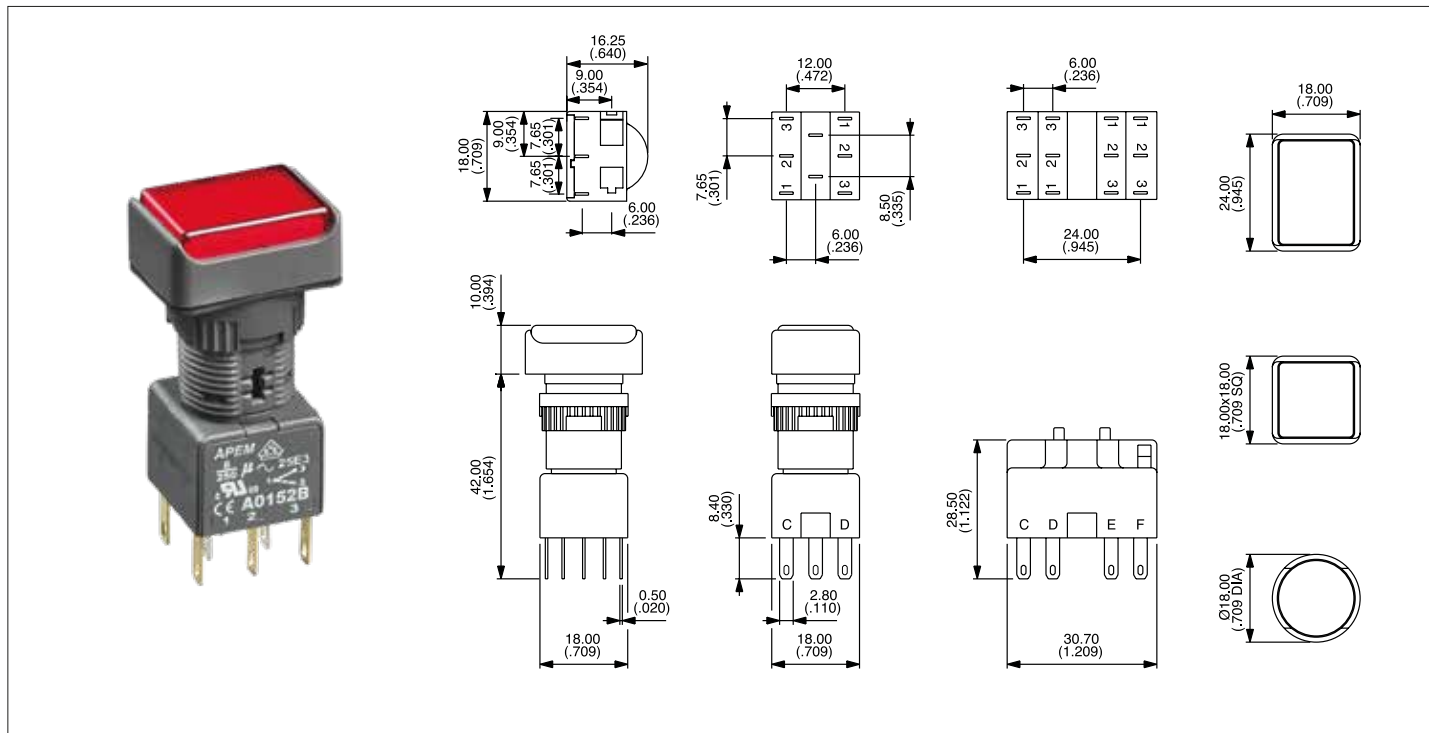
Mounting accessories : standard hardware 1 nut and 1 sealing washer.

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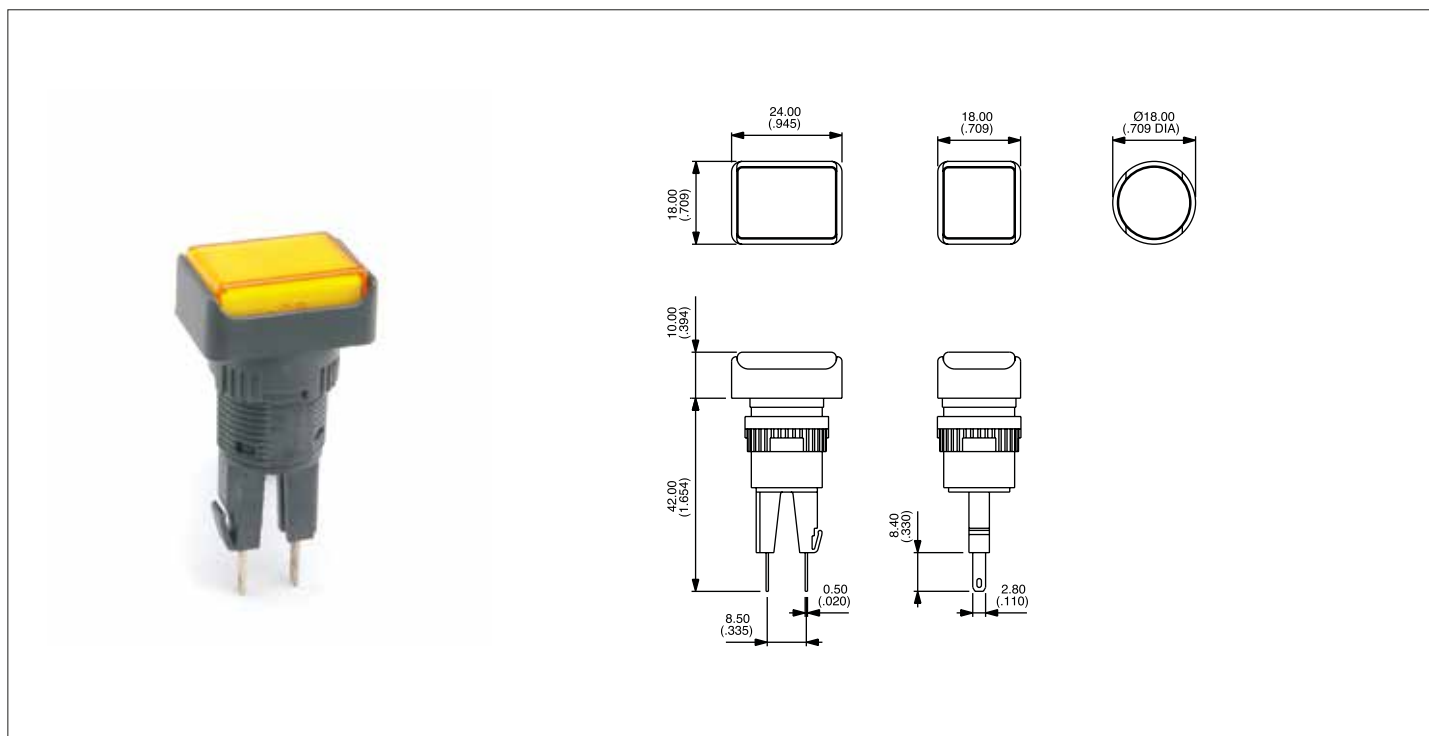
Pushbutton switches & indicators

Panel cut-out $\varnothing 16$ (0.755)

Pushbutton



Indicator



A01 series

Pushbutton switches & indicators

Overview

Pushbutton

Screen			+	Lamp <small>(if required)</small>		+	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		

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

Indicator

Screen			+	Lamp		+	Operator	
Bezel	Colour	Part No	Lamp	Voltage	Part No	Bezel	Description	Part No
	black	A0161A	Filament	6.3V	A0141A		Indicator	A0171
	red	A0161B	Filament	14V	A0141B		Indicator	A0172
	amber	A0161C	Filament	28V	A0141C		Indicator	A0173
	yellow	A0161D	Filament	36V	A0141D			
	green	A0161E	Filament	48V	A0141E			
	blue	A0161F	Filament	60V	A0141F			
	clear	A0161G	Neon	110V	A0143G			
	white	A0161J	Neon	220V	A0143H			
	black	A0162A	LED	6V red	A0142L1			
	red	A0162B	LED	6V green	A0142L2			
	amber	A0162C	LED	6V amber	A0142L3			
	yellow	A0162D	LED	12V red	A0142M1			
	green	A0162E	LED	12V green	A0142M2			
	blue	A0162F	LED	12V amber	A0142M3			
	clear	A0162G	LED	12V blue	A0142M4			
	white	A0162J	LED	12V white	A0142M5			
	black	A0163A	LED	24V red	A0142N1			
	red	A0163B	LED	24V green	A0142N2			
	amber	A0163C	LED	24V amber	A0142N3			
	yellow	A0163D	LED	24V blue	A0142N4			
	green	A0163E	LED	24V white	A0142N5			
	blue	A0163F	LED	48V red	A0142P1			
	clear	A0163G	LED	48V green	A0142P2			
	white	A0163J	LED	48V amber	A0142P3			

Bezel: rectangular square round.



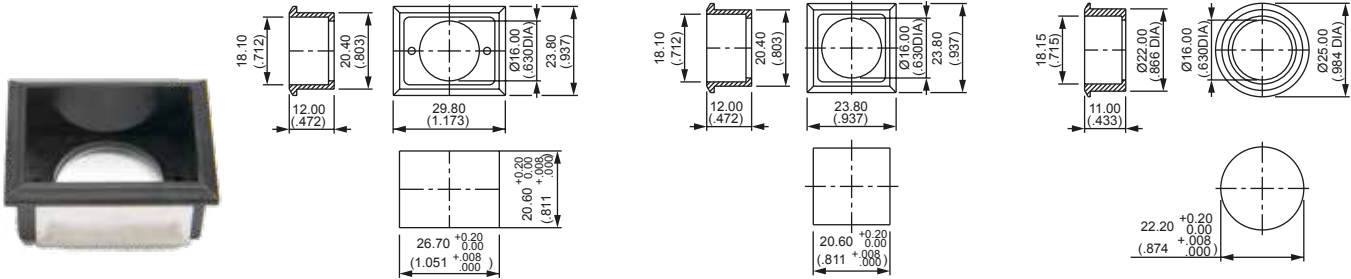
Unsealed switches & indicators (IP40) suffix 01 to the end of the part number.
Screen engraving insertable legends, & bi-color LED's please contact APEM

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Accessories

Flush mount bezels

Dark grey plastic material – supplied with sealing washer

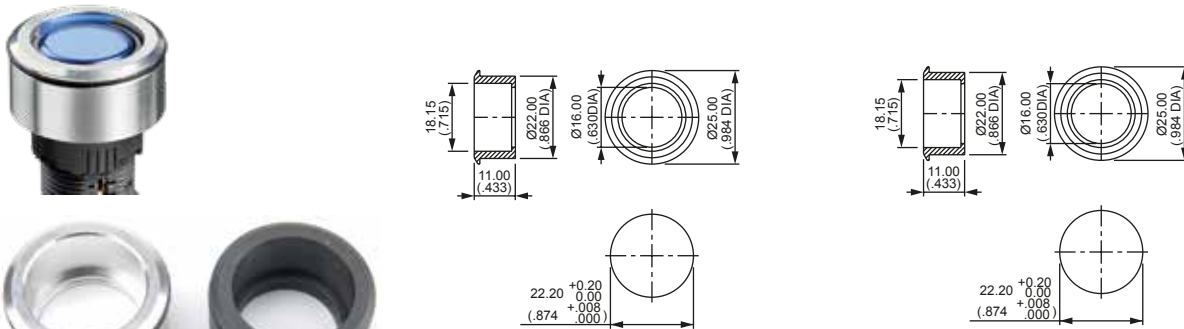


Rectangular : A01FM1

Square : A01FM

Round : A01FM2

Anodised aluminium/matt black



Round natural anodised : A01FMM

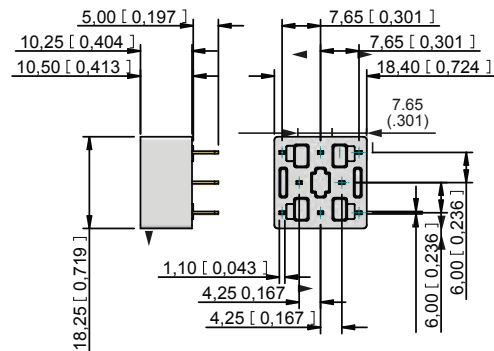
Round matt black : A01FMMG

PCB Sockets

Number of Poles

Part No.

Single pole, non illuminated :	A01PC1
Double pole, non illuminated :	A01PC2
Single pole, illuminated :	A01PC3
Double pole, illuminated :	A01PC4
Indicator :	A01PC5



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

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Accessories

Flap guards

To fit rectangular bezel : A01FG1

To fit round & Square bezel: A01FG2

Aluminium bezel protection guards

Rectangular : A01MG1

Square : A01MG

Round natural anodised: A01MG2
Matt black : A01MG2G

Anti rotation ring

A01LW

Blanking plugs

Rectangular : A0131

Square : A0132

Round : A0133

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Installation & tools

Installation guide

The diagrams illustrate the assembly of various switch types onto a panel. On the left, 'ROTARY LEVER SWITCHES' and 'KEYLOCK SWITCHES' are shown. The central 'PUSHBUTTONS & INDICATORS' diagram shows a cross-section of the assembly with labels: SCREEN, LEGEND, REFLECTOR, LOCATING SLOT, BULB, POLARISING DOT, PANEL SEAL, FIXING NUT, OPERATOR, LATCH, and SWITCH BLOCK. A dimension line indicates a distance of 8.00 max (31.4 max) between the top of the operator and the bottom of the panel seal. Below this, a 'SWITCH BLOCK ASSEMBLY' diagram shows the switch block being inserted into the back of the operator.

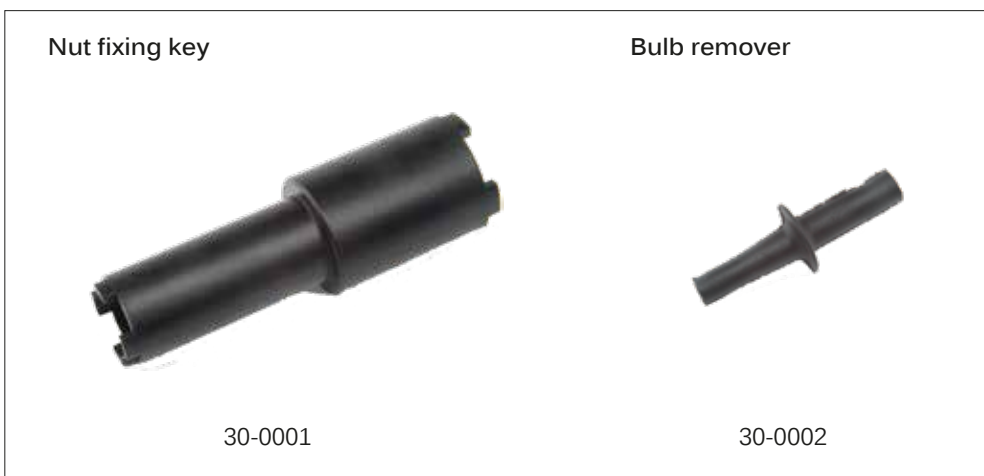
PANEL MOUNTING ASSEMBLY

- Drill/punch hole shaped as shown on page one.
- 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, 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

To assemble switch block to the operator, firstly, take care to line up the switch block with the back of the operator. Once in position slide on to the back of the operator. N.B. 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.

Tools



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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