Pushbutton switches & indicators

Distinctive features and specifications

A02_AX1607USR2



- Panel Sealed to IP65
- Single pole to four pole changeover
- Engraving & film legends
- Captive screw & push on tab terminals
- ☐ 12A 250VAC

ELECTRICAL SPECIFICATIONS

- Current/Voltage Rating: 25mA 5VAC Min, 12A 250VAC max, 12A 12VDC max
- Initial Contact Resistance : 10mΩ max at 1A 4VDC
- Insulation Resistance : 50MΩ min
- Dielectric Strength: 2KV between open contacts, 4KV live to accessible
- Electrical Life: 50,000 cycles min
- Contact Gap: Double break 2 x 1,5mm (0.059)
- 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 : M3 captive screw and push on tab terminal

GENERAL SPECIFICATIONS

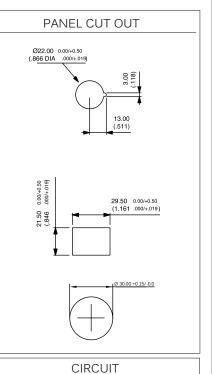
• Operating Temperature : -20°C to +85°C

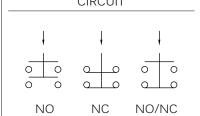
• Sealing: Panel sealed to IP65, rear of panel IP40

AGENCY APPROVALS









MATERIALS

• Screens: PC

• Reflector Assembly : PC

• Optional Metal Bezel: Nickel plated brass

• 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



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

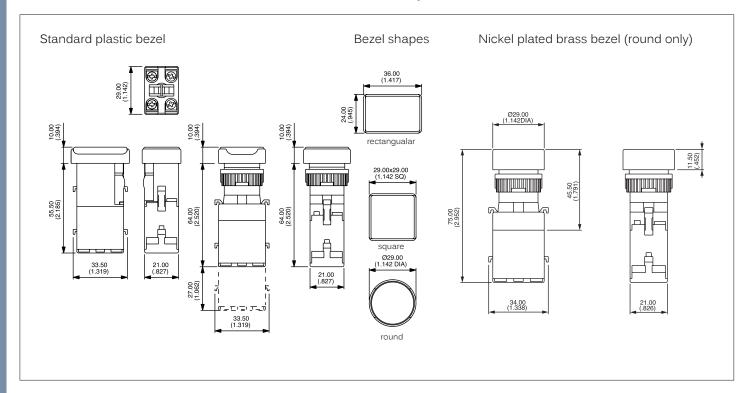


Mounting accessories: standard hardware 1 nut and 1 sealing washer.

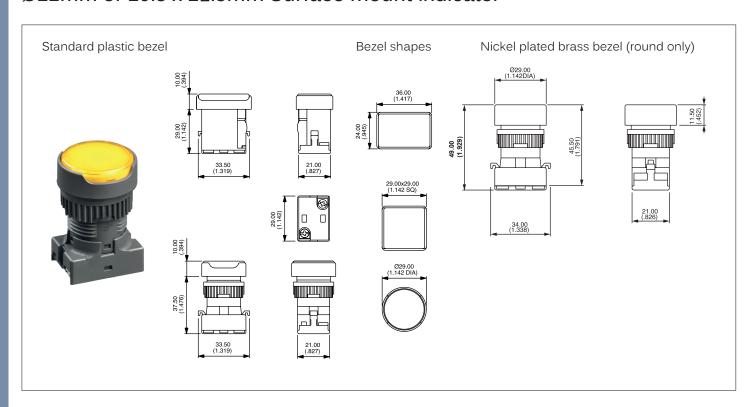
Pushbutton switches & indicators

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



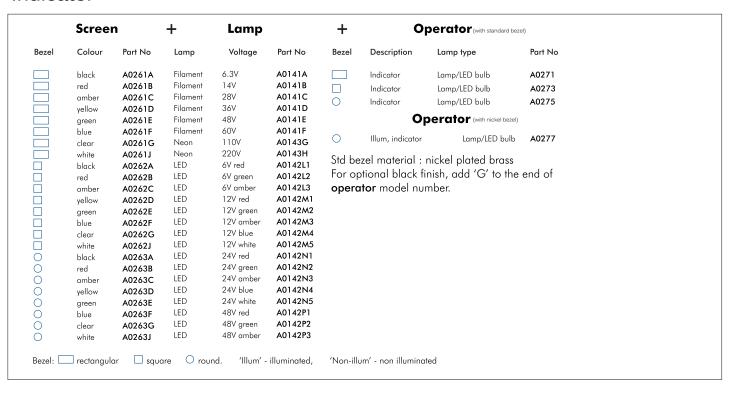
Pushbutton switches & indicators

Overview

Pushbutton

	Screen +		Lamp (if required)		+ Opera		Itor (with standard bezel) +		Switch block			
Bezel	Colour	Part No	Lamp	Voltage	Part No	Bezel	Description	Lamp type	Part No	Contacts	Part No	
	black	A0261A	Filament	6.3V	A0141A		Illum, momentary	Lamp/LED bulb	A0201Y	1 N.O.	A02501	
	red	A0261B	Filament	14V	A0141B		Illum, maintained	Lamp/LED bulb	A0201X	1 N.C.	A02502	
	amber	A0261C	Filament	28V	A0141C		Non-illum, momentary		A0203Y	2 N.O.	A02503	
	yellow	A0261D	Filament	36V	A0141D		Non-illum, maintained		A0203X	2 N.C.	A02504	
	green	A0261E	Filament	48V	A0141E		Illum, momentary	Lamp/LED bulb	A0204Y	1 N.O./1 N.C.	A02505	
	blue	A0261F	Filament	60V	A0141F		Illum, maintained	Lamp/LED bulb	A0204X			
	clear	A0261G	Neon	110V	A0143G		Non-illum, momentary		A0206Y	Second swi	tch black	
	white	A0261J	Neon	220V	A0143H		Non-illum, maintained		A0206X	Second Swi		
	black	A0262A	LED	6V red	A0142L1	0	Illum, momentary	Lamp/LED bulb	A0207Y	Contacts	Part No	
	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.	A02506	
	yellow	A0262D	LED	12V red	A0142M1	0	Non-illum, maintained		A0209X	1 N.C.	A02507	
	green	A0262E	LED	12V green	A0142M2		•			2 N.O.	A02508	
	blue	A0262F	LED	12V amber	A0142M3	Operator (with nickel bezel)				2 N.C.	A02509	
	clear	A0262G	LED	12V blue	A0142M4	Bezel	Description	Lamp type	Part No	1 N.O./1 N.C.	A02510	
	white	A0262J	LED	12V white	A0142M5					To achieve 2 or	1 -	
	black	A0263A	LED	24V red	A0142N1	0	Illum, momentary	Lamp/LED bulb	A0210Y	To achieve 3 or	•	
	red	A0263B	LED	24V green	A0142N2	0	Illum, maintained	Lamp/LED bulb	A0210X	switching, add s		
	amber	A0263C	LED	24V amber	A0142N3	0	Non-illum, momentary		A0212Y	switch block fro	m above	
	yellow	A0263D	LED	24V blue	A0142N4	0	Non-illum, maintained		A0212X	table.		
	green	A0263E	LED	24V white	A0142N5							
	blue	A0263F	LED	48V red	A0142P1	Std bezel material : nickel plated brass						
	clear	A0263G	LED	48V green	A0142P2	For optional black finish, add 'G' to the end of						
	white	A0263J	LED	48V amber	A0142P3	operator model number.						
Bezel: 🗆	rectangul	ar 🗌 squa	are O rou	nd. 'Illum' -	illuminated,	'Non-illu	um' - non illuminated					

Indicator



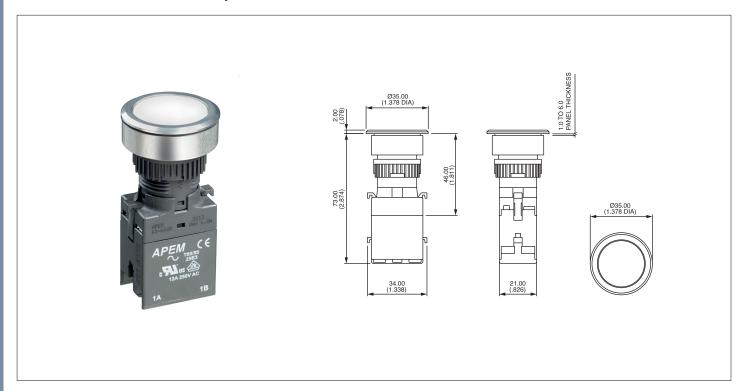


Unsealed switches & indicators (IP40) suffix 01 to the end of the part number. Screen engraving insertable legends, & bi-color LED's please contact APEM For 6.35mm push on tab terminals suffix the switch block part number with SP

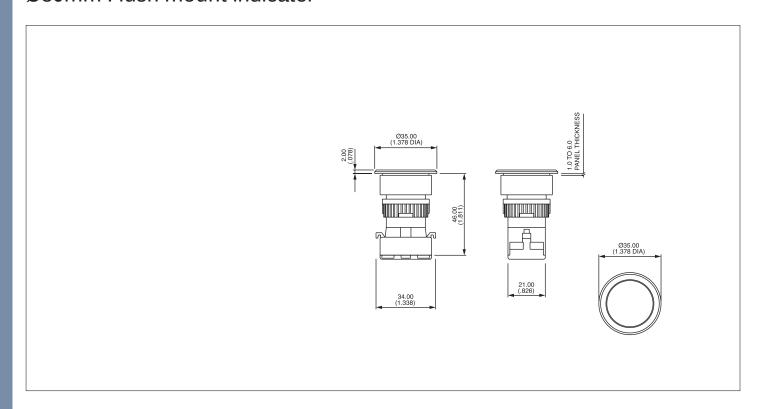
Flush mount pushbutton switches & indicators

Panel cut-out Ø30mm

Ø30mm Flush mount pushbutton



Ø30mm Flush mount indicator



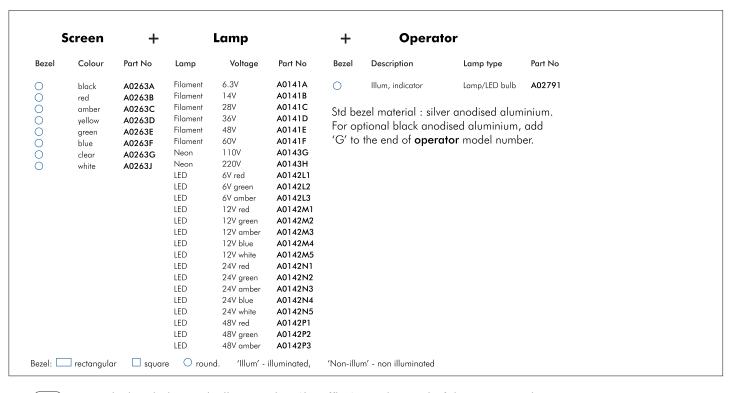
Flush mount pushbutton switches & indicators

Overview

Pushbutton

Screen		+	Lamp (if required)		+	Operator +		+	Switch block		
ezel	Colour	Part No	Lamp	Voltage	Part No	Bezel	Description	Lamp type	Part No	Contacts	Part No
	black	A0263A	Filament	6.3V	A0141A	0	Illum, momentary	Lamp/LED bulb	A0214Y	1 N.O.	A02501
	red	A0263B	Filament	14V	A0141B	Ö	Illum, maintained	Lamp/LED bulb	A0214X	1 N.C.	A02502
	amber	A0263C	Filament	28V	A0141C	O	Non-illum, momentary		A0215Y	2 N.O.	A02503
	yellow	A0263D	Filament	36V	A0141D	O	Non-illum, maintained		A0215X	2 N.C.	A02504
)	green	A0263E	Filament	48V	A0141E		Illum, indicator	Lamp/LED bulb	A02791	1 N.O./1 N.C.	A02505
	blue	A0263F	Filament	60V	A0141F	C. II		1. 1. 1			
	clear	A0263G	Neon	110V	A0143G		zel material : silver o				
)	white	A0263J	Neon	220V	A0143H		otional black anodise				
			LED	6V red	A0142L1	'G' to	the end of operato	r model numb	er.	Second swit	ich block
			LED	6V green	A0142L2		•			Contacts	Part No
			LED	6V amber	A0142L3					Comacis	1411140
			LED	12V red	A0142M1					1 N.O.	A0250
			LED	12V green	A0142M2					1 N.C.	A0250
			LED	12V amber	A0142M3					2 N.O.	A02508
			LED	12V blue	A0142M4					2 N.C.	A02500
			LED	12V white	A0142M5					1 N.O./1 N.C.	A0250
			LED	24V red	A0142N1					1 N.O./ 1 N.C.	A02310
			LED	24V green	A0142N2					To achieve 3 or	1 nole
			LED	24V amber	A0142N3						
			LED	24V blue	A0142N4					switching, add s	
			LED	24V white	A0142N5					switch block fror	n above
			LED	48V red	A0142P1					table.	
			LED	48V green	A0142P2					- *:=:	
			LED	48V amber	A0142P3						

Indicator



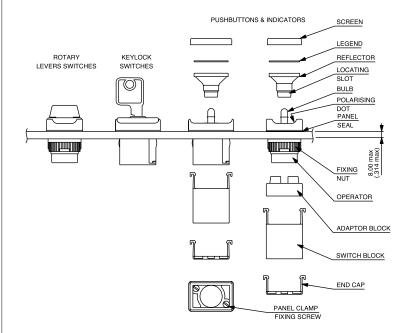


Unsealed switches & indicators (IP40) suffix 01 to the end of the part number. Screen engraving insertable legends, & bi-color LED's please contact APEM For 6.35mm push on tab terminals suffix the switch block part number with SP

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.

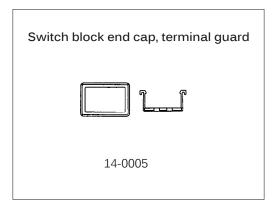
SWITCH BLOCK ASSEMBLY

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:

A02505 A02510