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Push Button Switches

Bulgin's broad line of pushbutton switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including home appliances, commercial, medical, audio and security.

- Miniature, round and rectangular push button switches available
- Ratings up to 16A, 250V ac
  12(12)A 250V ac rating also available
- Latching and momentary actions
- Choice of actuators
  (custom option also available)
- Square and Round Mounting Styles



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Switches

Push Button

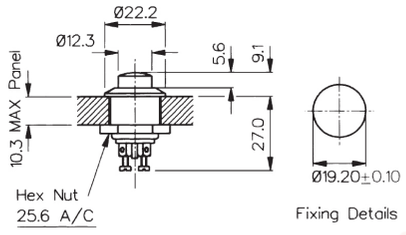
bulgin

Front Panel Mounting



MP0012/Col

- 22mm diameter
- Prominent Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

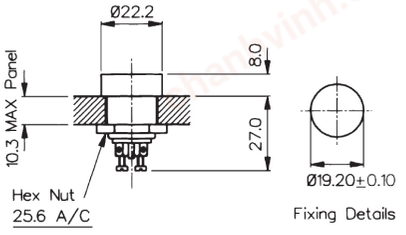


Front Panel Mounting



MP0012/1/Col

- 22mm diameter
- Recessed Button
- S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

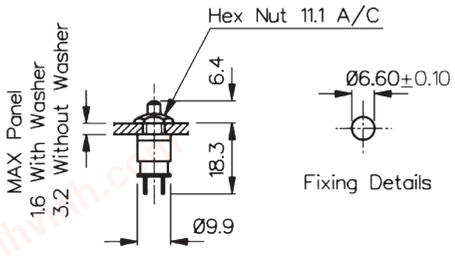


Rear Panel Mounting



MP0016

- S.P. Push to Make
- Solder Tags
- 1A, 28Vac/dc
- Brass Nickel Plated Body, Glass Filled Nylon Button



Specifications	MP0012/Colour	MP0012/1/Colour	MP0016/Colour
Terminations:	Screw Terminals	Screw Terminals	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	1A 28Vac/dc (non-inductive)
Contact Resistance:	<15mΩ	<15mΩ	<15mΩ
Insulation Resistance:	$>10^4$ MΩ	$>10^4$ MΩ	$>10^4$ MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac	>2.0kVac
Operating Temp. Range:	–20°C to +85°C	–20°C to +85°C	–20°C to +85°C
Operation Pressure (typ):	9.18 newtons	9.18 newtons	6.22 newtons
Materials Moulding: Body:	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated
Contacts/Terms:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Variant	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)
RoHS	Compliant	Compliant	Compliant

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8300 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac



Key Features

- Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Illuminated and nonilluminated
- Single and double pole
- Latching and momentary
- Slotted actuator for custom buttons
- Industry standard panel cutout
- Panel cut out: 19.3 x 12.9

Approvals and specifications

16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(12)A 250Vac T105, 1E4 (10,000 Operations)
8(8)A 250Vac T105, 5E4 (50,000 Operations)
6(6)A 250Vac T125, 5E4 (50,000 Operations)

8350, 8351, 8353, 8354
12A 250Vac DP, 250Vac 1hp, 125Vac 1/2hp

8300, 8301, 8303, 8304
13A 250Vac SP, 250Vac 1hp, 125Vac 1/2hp

UL 85°C, file E45221, CSA file LR10990

In house test:
10(10)A 250Vac—Indicative rating only

3mm contact gap.

Terminal

C



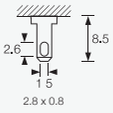
H



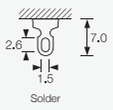
A



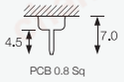
K



T



X



V



Function



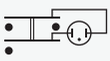
Approvals & ratings vary with function
Single pole switches use terminals 1 & 2 (& 3)

8300
Single Pole
ON - OFF

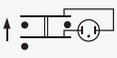
8301
Single Pole
ON - OFF
(momentary ON)



8303
Single Pole
ON - OFF
With Light



8304
Single Pole
ON - OFF
(momentary ON) with light



8350
Double pole
ON - OFF



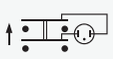
8351
Double pole
ON - OFF (momentary ON)



8353
Double pole
ON - OFF
With light



8354
Double pole
ON - OFF (momentary ON)
with light



8355
Single pole
ON - OFF
Isolated light - switched
C, E & M actuators only



8356
Single pole
ON - OFF
Isolated light - unswitched
C, E & M actuators only



Actuator

A Standard actuator



H Slotted for custom caps



C Square actuator



E Radiused actuator



F Small round actuator



J Smooth curved actuator



M



D Large round actuator

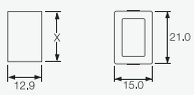


All actuators except H available lit

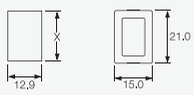
Body Code

Panel cut-out ** Bezel

B Standard body



E Softline style body with radiused bezel



Cut-outs must be punched in the direction of insertion

Dimensions for snap-in fixing

Panel thickness	Dimension X
0.75-1.24	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

X and V PCB terminals.
Additional dummy terminals may be supplied for extra support.

Body Colour

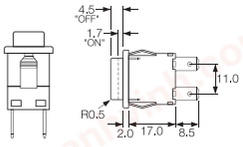
B Black

W White

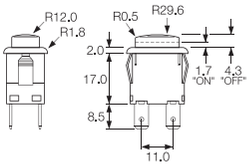
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Dimensions

Actuator A
Body B



Actuator J
Body E



Examples



H8350AB - - -
T8350AB - - -



H8353JE - - -
T8353JE - - -



H8353EB - - -
T8353EB - - -



H8353CB - - -
T8353CB - - -

Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
LIT				
A Amber	_ None			H 12(12)A 250Vac switch rating Finish Matt finish standard except on J and D actuators which are gloss Colour Call sales for custom colours A full range is available for large orders Legend printing Select from the examples or call sales for custom legends. Special buttons Some of the many options are shown Call sales for the full range L167 Protective cover
C Clear	**2** 125V Neon			
G Green	**3** 250V Neon			
R Red	**7** 12V Filament			
	8 24V Filament			
UNLIT				
B Black				
R Red				
W White				



Snaps on to switch bodies fitted with “A” or “J” style actuators, this reduces panel thickness by 0.8mm

BioCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

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8200 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac

bulgin



Key Features

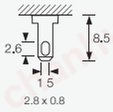
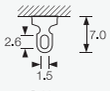
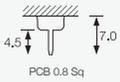
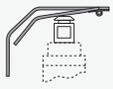
- Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Without button
- Sub panel mount
- Push on, solder or PCB terminals
- Latching and momentary

Approvals and specifications

16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(12)A 250Vac T105, 1E4 (10,000 Operations)
8(8)A 250Vac T105, 5E4 (50,000 Operations)
6(6)A 250Vac T125, 5E4 (50,000 Operations)

12A 250Vac
250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

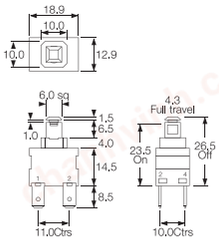
3mm contact gap.

Terminal	Function	Actuator	Body Code
C  6.3 x 0.8 **H**  4.8 x 0.8 **A**  As "H" but right angle 4.8 x 0.8 **K**  2.8 x 0.8 **T**  Solder **V**  Dual pin PCB (Call sales for mounting dims) **X**  PCB 0.8 Sq	 Approvals & ratings vary with function Single pole switches use terminals 1 & 2 (& 3) **8200** Single Pole ON - OFF  **8201** Single Pole ON - OFF (momentary ON)  **8250** Double Pole ON - OFF  **8251** Double Pole ON - OFF (momentary ON) 	**A** Standard actuator for snap-on custom adaptors  **B** Flat top actuator  **C** Curved top actuator  **Examples of possible actuation methods** Using a Snap on adaptor  Using a Hinged Actuator 	**A** Standard body  See dimensioned drawings for details **C** As standard body but with side support peg for use with M PCB terminals  X and V PCB terminals. Additional dummy terminals may be supplied for extra support.

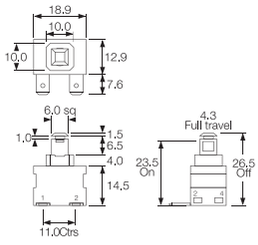
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Dimensions

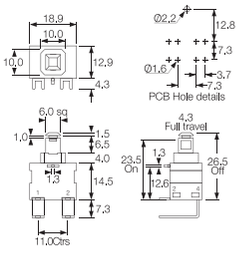
'A' body with 'H' 4.8 terminals



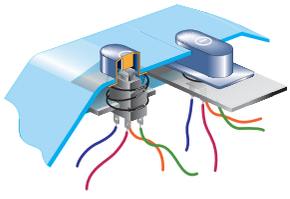
'A' body with 'A' right angle 4.8 terminals



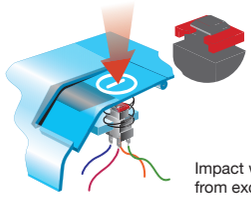
'C' body with 'M' right angle PCB terminals



Example of possible mounting styles



Alternative Actuator



Impact washer resists damage from excessive operator force

Examples



C8250AA - - - with impact washer M1226



X8201AA - - -



K8200AA - - -



A8200AA - - -



M8200AC - - -

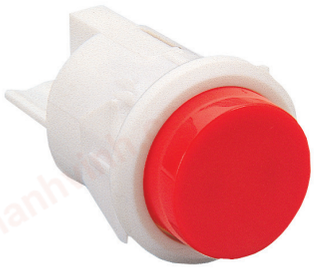


Example of M8200AC

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7000 Series Push Button

16A 250Vac



Key Features

- Round and rectangular push button switches
- Ratings up to 16A, 250V ac
- Latching and momentary
- Illuminated & non-illuminated
- Matching indicators
- Low profile version
- Panel cut outs: 25.0 dia 27.2 x 22.3

Approvals and specifications

16(4)A 250Vac T125
8(8)A 250Vac T85

UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp
UL 65°C, file no. E45221, CSA file no. LR10990

3mm contact gap.

Terminal	Function	Actuator	Body Code

Terminal

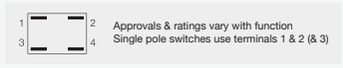
C



H

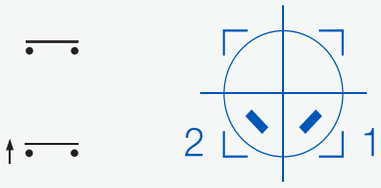


Function



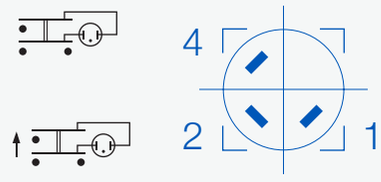
7000
Single Pole
ON - OFF

7001
Single Pole (momentary)
ON - OFF



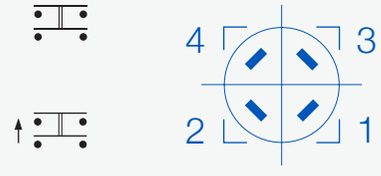
7003
Single Pole (with light)
ON - OFF

7004
Single Pole (momentary) with light
ON - OFF



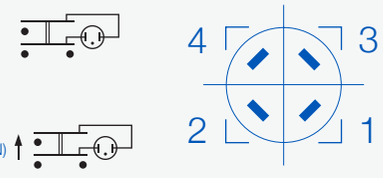
7050
Double Pole
ON - OFF

7051
Double Pole with light
ON - OFF

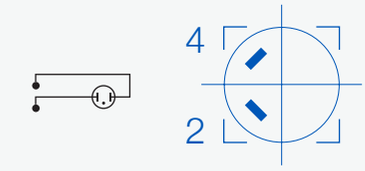


7053
Double pole with light
ON - OFF

7054
Double pole (momentary ON) with light
ON - OFF

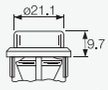


7030
Indicator
UL E63363
CSA LR29381



Actuator

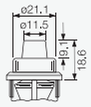
A Round actuator shown in F body



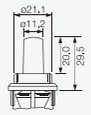
A Round actuator shown in G body



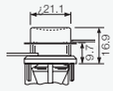
B Round actuator - medium shown in F body



C Round actuator - long shown in F body



D Round actuator - sub panel mount



S Rectangular actuator Shown in "A" body N/A for 7030

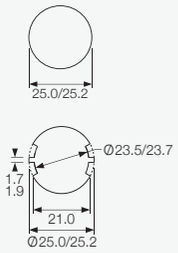


Body Code

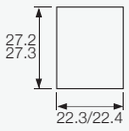
Panel cut-outs

F H G

Body types fit either cut-out



A

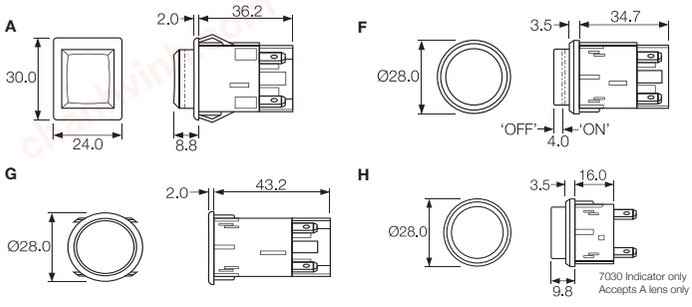


Cut-outs must be punched in the direction of insertion

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Dimensions

Panel thickness:
A - 0.8 - 2.5mm
F, G, H - 0.8 - 5.0mm



Examples


C7000AF - - -


C7003AF - - -


C7050SA - - -


C7053AG - - -

Body Colour	Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
	LIT				
B Black	**A** Amber	_ None			
W White	**C** Clear	**2** 125V Neon			
	G Green	**3** 250V Neon			
	R Red	**7** 12V Filament			
		8 24V Filament			
	UNLIT				
	B Black				
	R Red				
	W White				

Finish
Matt finish is standard on bodies.
Gloss finish is standard on actuators.

Colour
Call sales for custom colours.
A full range is available for large orders.

Legend printing
A wide range is available or call sales for custom legends.

Lamp voltage
Call sales for details of available voltages.

Weatherproof housing (E)
Additional housing which fits round body switches with an oversize housing with a clear silicone cover designed to IP65.
Mounting hole dia: 38.0mm

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0911 Push Button Switches

0.5A 250Vac


C0911PB - - -


C0911RB - - -


C0911KB - - -

Key Features

- Snap action switches
- Ratings up to 16A, 250Vac
- Round and rectangular buttons

Approvals and specifications

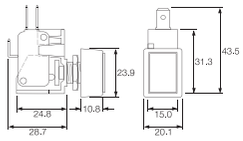
16(4)A 250Vac 5E4 T85

16A 125/250Vac 3/4hp T85 50E3
125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc

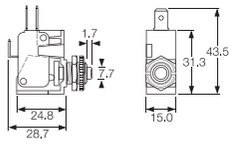
Approvals apply to switch mechanism only.
μ contact gap.

Dimensions

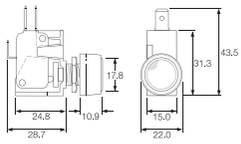
R

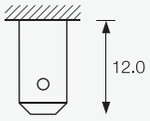
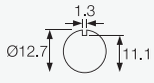


P



K & N



Terminal	Function	Actuator	Body Code	Options
	**0911** (momentary) ON - ON 	**R** Rectangular bezel  **P** Short  **K** with satin chrome bezel  **N** with nylon bezel 	 Panel Cut-out Panel thickness Both nuts 2.5mm No backnut 4.0mm	Call factory for custom colours

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Key Features

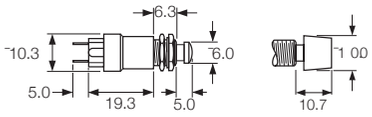
- Self wiping contacts
- Slow make & break
- Momentary action
- Choice of switch circuits
- Choice of actuators

Approvals and specifications

In house test:
0.5A 250Vac T85 — Indicative rating only

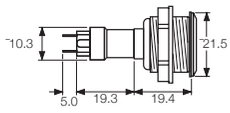
Dimensions

Dimensions (mm) Nylon S and L actuators

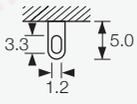
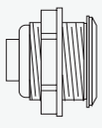
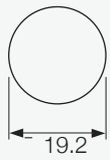


Neck thread - 40 TPI Whit. Actuator travel - 2.5 max

Stainless steel V actuator (IP66)



Neck thread - 26 TPI Whit. Actuator travel - 2.5 max

Terminal	Function	Actuator	Body Code	Options
T  Solder	**0916**  Black base SP ON - OFF (momentary) **0917** 50V only  Brown base SP ON - OFF (momentary 1 side) **0918**  White base SP ON - OFF (momentary OFF) **0919**  Black base DP ON - OFF (momentary 1 side) **0920**  White base DP ON - OFF (momentary ON)	**S** Small Actuator  **L** Large Actuator  **V** Vandal Resistant IP66 Flattop Stainless Steel 	 Panel Cut-out (L & S Actuators) Panel thickness Both nuts - 2.5mm No Backnut - 4.0  Panel Cut-out (Stainles Steel V Actuator) Panel thickness - 8.0mm	Finish Gloss finish for L and S actuators. Colour Call sales for custom colours. A full range is available for large orders.

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Voltage Selectors

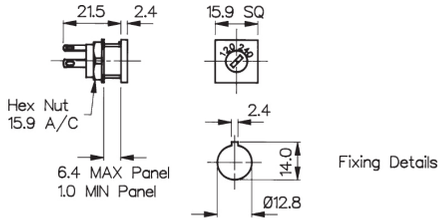
bulgin

120/140V Voltage Selector



VS0001

- 2.8 series tabs/solder tags
- Square Front Bezel
- 6.3A
- CSA & VDE approvals



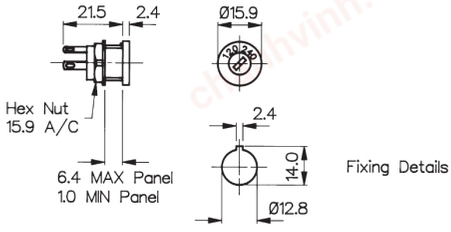
Fixing Details

120/140V Voltage Selector



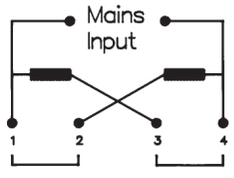
VS0002

- 2.8 series tabs/Solder tags
- Round Front Bezel
- 6.3A
- CSA & VDE approvals

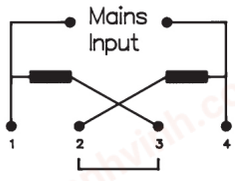


Fixing Details

Connection Parallel 120V



Connection Series 240V



Specifications	VS0001	VS0002
Max. Rating:	6.3A, 120 / 240	6.3A, 120 / 240
Insulation Resistance:	>106 MΩ	>106 MΩ
Termination:	2.8 series tabs/solder tags	2.8 series tabs/solder tags
Temperature Range:	–20°C to +85°C	–20°C to +85°C
Materials:		
Mouldings:	Glass Filled Nylon UL94V-1	Glass Filled Nylon UL94V-1
Tags:	Brass, Silver Plated	Brass, Silver Plated
Contacts:	Copper Silver Alloy	Copper Silver Alloy
Approvals:		
Variants:	Other markings, details on request	Other markings, details on request
RoHS		Compliant