
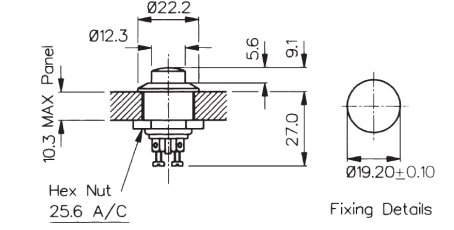

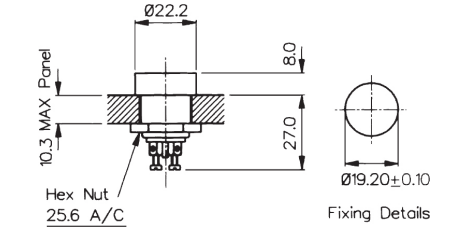

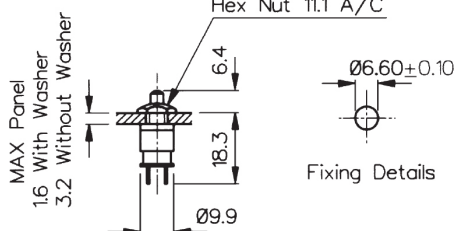


Bulgin's broad line of pushbutton switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including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



<p>Front Panel Mounting</p>  <p>MP0012/Col</p>	<ul style="list-style-type: none"> ○ 22mm diameter ○ Prominent Button ○ S.P. Push to Make ○ Screw Terminals ○ Brass, Chrome Plated Body, Glass Filled Nylon Button 	 <p>Technical drawing showing dimensions: Ø22.2, Ø12.3, 10.3 MAX Panel, 5.6, 9.1, 27.0, Hex Nut 25.6 A/C, and Fixing Details Ø19.20±0.10.</p>
<p>Front Panel Mounting</p>  <p>MP0012/1/Col</p>	<ul style="list-style-type: none"> ○ 22mm diameter ○ Recessed Button ○ S.P. Push to Make ○ Screw Terminals ○ Brass, Chrome Plated Body, Glass Filled Nylon Button 	 <p>Technical drawing showing dimensions: Ø22.2, 10.3 MAX Panel, 8.0, 27.0, Hex Nut 25.6 A/C, and Fixing Details Ø19.20±0.10.</p>
<p>Rear Panel Mounting</p>  <p>MP0016</p>	<ul style="list-style-type: none"> ○ S.P. Push to Make ○ Solder Tags ○ 1A, 28Vac/dc ○ Brass Nickel Plated Body, Glass Filled Nylon Button 	 <p>Technical drawing showing dimensions: MAX Panel 1.6 With Washer, 3.2 Without Washer, Hex Nut 11.1 A/C, 6.4, 18.3, Ø9.9, and Fixing Details Ø6.60±0.10.</p>

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

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 Contact
- Latching and momentary
- Slotted actuator for custom buttons
- Industry standard panel cutout
- Panel cut out: 19.3 x 12.9

Approvals and specifications

12 A GP, 250 Vac, T85
13 A GP, 250 Vac, T85
1 hp, 250 Vac, T85, 6E3/1E4

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

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

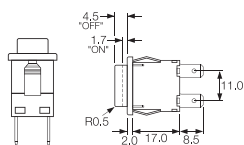
In house test:
10(10)A 250Vac—Indicative rating only

3mm contact gap.

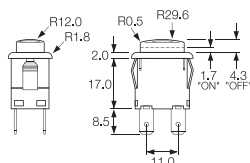
Terminal	Function	Actuator	Body Code	Body Colour								
<p>C</p>	<p>1 2 3 4</p> <p>Approvals & ratings vary with function Single Contact switches use terminals 1 & 2 (& 3)</p> <p>8300 Single Contact ON - OFF</p>	<p>A Standard actuator</p>	<p>Panel cut-out ** Bezel</p> <p>B Standard body</p>	<p>B Black</p>								
<p>H</p>	<p>8301 Single Contact ON - OFF (momentary ON)</p>	<p>H Slotted for custom caps</p>	<p>E Softline style body with radiused bezel</p> <p>Cut-outs must be punched in the direction of insertion</p>	<p>W White</p>								
<p>A</p> <p>As "H" but right angle 4.8 x 0.8</p>	<p>8303 Single Contact ON - OFF With Light</p>	<p>Slots for snap-in buttons</p> <p>C Square actuator</p>	<p>D Large round actuator</p>									
<p>K</p>	<p>8304 Single Contact ON - OFF (momentary ON) with light</p>	<p>E Radiused actuator</p>	<p>F Small round actuator</p>	<p>Dimensions for snap-in fixing</p> <table border="1"> <thead> <tr> <th>Panel thickness</th> <th>Dimension X</th> </tr> </thead> <tbody> <tr> <td>0.75-1.24</td> <td>19.1/19.2</td> </tr> <tr> <td>1.25-1.99</td> <td>19.3/19.4</td> </tr> <tr> <td>2.00-3.00</td> <td>19.7/19.8</td> </tr> </tbody> </table>	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
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											
<p>T</p> <p>Solder</p>	<p>8350 Double Contact ON - OFF</p>	<p>J Smooth curved actuator</p>	<p>M</p>									
<p>X</p>	<p>8351 Double Contact ON - OFF (momentary ON)</p>	<p>M</p>	<p>J Smooth curved actuator</p>									
<p>V</p> <p>Dual Plug PCB (Call sales for mounting dims)</p>	<p>8353 Double Contact ON - OFF With light</p>	<p>D Large round actuator</p>	<p>J Smooth curved actuator</p>									
	<p>8354 Double Contact ON - OFF (momentary ON) with light</p>	<p>M</p>	<p>D Large round actuator</p>									
	<p>8355 Single Contact ON - OFF Isolated light - switched C, E & M actuators only</p>	<p>M</p>	<p>J Smooth curved actuator</p>									
	<p>8356 Single Contact ON - OFF Isolated light - unswitched C, E & M actuators only</p>	<p>M</p>	<p>J Smooth curved actuator</p>									

Dimensions

Actuator A
Body B



Actuator J
Body E



Examples



H8350AB ---
T8350AB ---




H8353JE ---
T8353JE ---



H8353EB ---
T8353EB ---

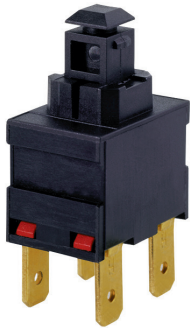


H8353CB ---
T8353CB ---

Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
LIT				
A Amber	— None			H 12(12)A 250Vac switch rating
C Clear	2 125V Neon			Finish Matt finish standard except on J and D actuators which are gloss
G Green	3 250V Neon			Colour Call sales for custom colours A full range is available for large orders
R Red	7 12V Filament			Legend printing Select from the examples or call sales for custom legends.
UNLIT	8 24V Filament			Special buttons Some of the many options are shown Call sales for the full range
B Black				L167 Protective cover  Snaps on to switch bodies fitted with "A" or "J" style actuators, this reduces panel thickness by 0.8mm
R Red				BioCote Antimicrobial Additive Moulded components have antimicrobial properties using BioCote silver ion technology.
W White				

8200 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)
- Without button
- Sub panel mount
- Push on, solder or PCB terminals
- Latching and momentary

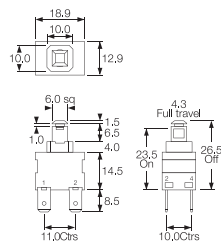
Approvals and specifications

- ⚡ 12 A GP, 250 Vac, T85
13 A GP, 250 Vac, T85
1 hp, 250 Vac, T85, 6E3/1E4
- ⚡ 12A 250Vac
250Vac 1hp, 125Vac 1/2hp
3mm contact gap.

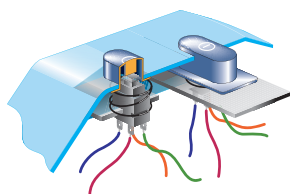
Terminal	Function	Actuator	Body Code
<p>C</p>	<p>Approvals & ratings vary with function Single Contact switches use terminals 1 & 2 (& 3)</p> <p>8200 Single Contact ON - OFF</p>	<p>A Standard actuator for snap-on custom adaptors</p> <p>B Flat top actuator</p> <p>C Curved top actuator</p> <p>Examples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

Dimensions

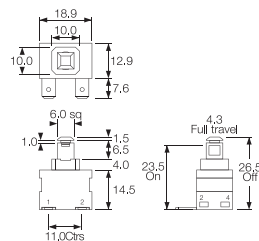
'A' body with 'H' 4.8 terminals



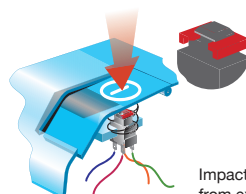
Example of possible mounting styles



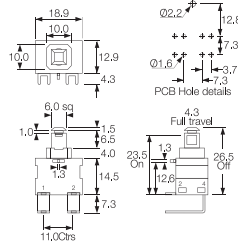
'A' body with 'A' right angle 4.8 terminals



Alternative Actuator



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



Examples



C8250AA ---
with impact
washer M1226



X8201AA ---



K8200AA ---



A8200AA ---



M8200AC ---



Example of M8200AC

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

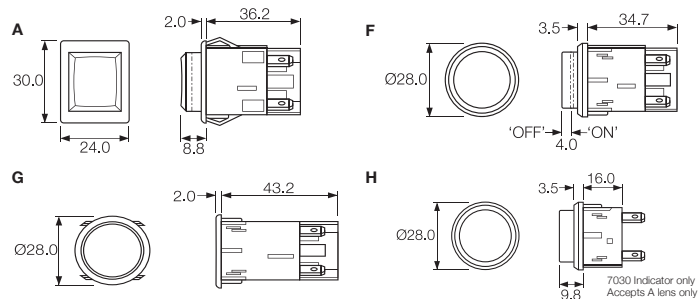
Approvals and specifications

- ☑ 16(4)A 250Vac T85/55
8(8)A 250Vac T85/55 (pending)
- ☑ UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp
UL 65°C, file no. E45221
- 3mm contact gap.

Terminal	Function	Actuator	Body Code
<p>C</p> <p>6.3 x 0.8</p> <p>H</p> <p>4.8 x 0.8</p>	<p>1 2 3 4 Approvals & ratings vary with function Single Contact switches use terminals 1 & 2 (& 3)</p> <p>7000 Single Contact ON - OFF</p> <p>7001 Single Contact (momentary) ON - OFF</p> <p>7003 Single Contact (with light) ON - OFF</p> <p>7004 Single Contact (momentary) with light ON - OFF</p> <p>7050 Double Contact ON - OFF</p> <p>7051 Double Contact with light ON - OFF</p> <p>7053 Double Contact with light ON - OFF</p> <p>7054 Double Contact (momentary ON) with light ON - OFF</p> <p>7030 Indicator UL E63363 CSA LR29381</p> 	<p>A Round actuator shown in F body</p> <p>A Round actuator shown in G body</p> <p>B Round actuator - medium shown in F body</p> <p>C Round actuator - long shown in F body</p> <p>D Round actuator - sub panel mount</p> <p>S Rectangular actuator Shown in "A" body N/A for 7030</p>	<p>Panel cut-outs</p> <p>F H G</p> <p>Body types fit either cut-out</p> <p>A</p> <p>Cut-outs must be punched in the direction of insertion</p>

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
B Black	A Amber	— None			<p>Finish Matt finish is standard on bodies. Gloss finish is standard on actuators.</p> <p>Colour Call sales for custom colours. A full range is available for large orders.</p> <p>Legend printing A wide range is available or call sales for custom legends.</p> <p>Lamp voltage Call sales for details of available voltages.</p> <p>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</p>
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				

0911 Push Button Switches

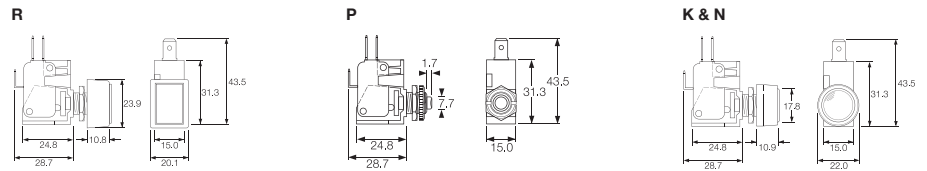
0.5A 250Vac



Key Features

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

Dimensions



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



Key Features

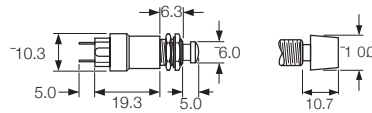
- Self wiping contacts
- Slow make & break
- Momentary action
- Choice of switch circuits
- Choice of actuators

Approvals and specifications

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

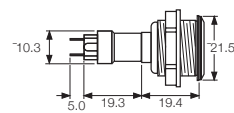
Dimensions

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

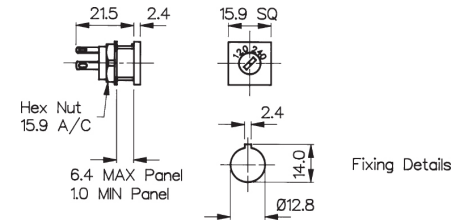
Terminal	Function	Actuator	Body Code	Options
<p>T</p>	<p>0916</p> <p>Black base SP ON - OFF (momentary)</p>	<p>S Small Actuator</p>	<p>7.1</p>	<p>Finish</p> <p>Gloss finish for L and S actuators.</p> <p>Colour</p> <p>Call sales for custom colours. A full range is available for large orders.</p>
	<p>0917 50V only</p> <p>Brown base SP ON - OFF (momentary 1 side)</p>	<p>L Large Actuator</p>	<p>Panel Cut-out (L & S Actuators)</p> <p>Panel thickness Both nuts - 2.5mm No Backnut - 4.0</p>	
	<p>0918</p> <p>White base SP ON - OFF (momentary OFF)</p>	<p>V Vandal Resistant IP66 Flattop Stainless Steel</p>	<p>19.2</p>	
	<p>0919</p> <p>Black base DP ON - OFF (momentary 1 side)</p>		<p>Panel Cut-out (Stainless Steel V Actuator) Panel thickness - 8.0mm</p>	
	<p>0920</p> <p>White base DP ON - OFF (momentary ON)</p>			

120/140V Voltage Selector



VS0001

- 2.8 series tabs/solder tags
- Square Front Bezel
- 6.3A

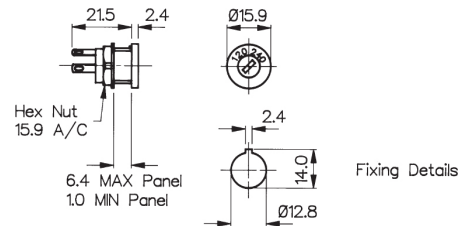


120/240V Voltage Selector

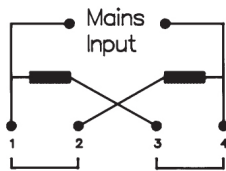


VS0002

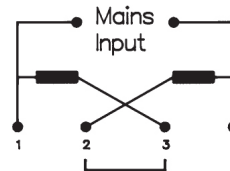
- 2.8 series tabs/Solder tags
- Round Front Bezel
- 6.3A



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
Variants:	Other markings, details on request	Other markings, details on request
RoHS		Compliant

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[MP0013/2](#) [MP0045/1D0NN000S](#) [MP0045/1A2BL012](#) [MP0045/1B2BL220](#) [MP0045/1A2GN012](#) [MP0045/1B1GN012](#)
[MP0045/1A2GN220](#) [MP0045/1A2AM012](#) [MP0045/1B1AM220](#) [MP0045/1B2AM220](#) [MP0045/1B1AM012](#)
[MP0045/1A2BL220](#) [MP0045/1A1BL220](#) [MP0045/1A2RD012](#) [MP0045/1B1RD012](#) [MP0045/1B1RD220](#)
[MP0045/1B1BL012](#) [MP0045/1B2RD220](#) [MP0045/1A1AM012](#) [MP0045/1B1BL220](#) [MP0045/1B0NN000](#)
[MP0045/1B2GN012](#) [MP0045/1A1BL012](#) [MP0045/1B2AM012](#) [MP0045/1A1GN220](#) [MP0045/1A2AM220](#)
[MP0045/1A1RD012](#) [MP0045/1A1RD220](#) [MP0045/3A0NN000](#) [MP0045/1A0NN000](#) [MP0045/1B2GN220](#)
[MP0045/1B2RD012](#) [MP0045/1A1AM220](#) [MP0045/1A1GN012](#) [MP0045/1B1GN220](#) [MP0045/1B2BL012](#)
[MP0045/1A2RD220](#)