

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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



Push Button

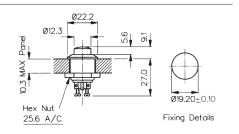


Front Panel Mounting



MP0012/Col

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

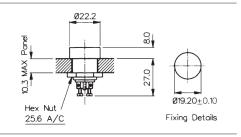


Front Panel Mounting



MP0012/1/Col

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

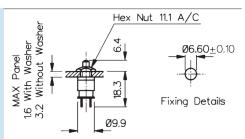


Rear Panel Mounting



MP0016

- S.P. Push to Make
- 0 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:	$>10^4 \mathrm{M}\Omega$	$>10^4 M\Omega$	$>10^4 M\Omega$
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

Switches

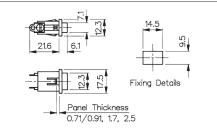
Push Button



Front Panel Mounting



- S.P. Push to MakeSolder Tags
- Nylon Body & Button



Switch Contact Operation

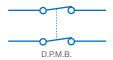






S.P.C.O.





Terminations: Solder Tags

Switching: S.P. Push to Make

Slow Momentary Action

Max. Rating: 0.25A. 250Vac, 0.5A. 110Vac,

1A. 0.1 to 28Vac/dc

Contact Resistance: $<15 m\Omega$ Insulation Resistance: $>10^4 \, M\Omega$ Dielectric Strength: >2.5 kVac

Operating Temp. Range: -20°C to +70°C

Sealing:

Materials

Moulding: Nylo

Tags: Brass, Silver Plated

Body: Nylon

Contacts/Terms: Brass, Silver Plated

Variant Button Colours: Standard - Black,

/WH (White) and /RD (Red). /TERM - (Screw terminals)

RoHS Compliant

8300 Series Push Button

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





Key Features

- Miniature push button
- SA Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- O Illuminated and nonilluminated
- O Single and double pole
- Latching and momentary
- Slotted actuator for custom buttons

- Industry standard panel cutout
- O BioCote antimicrobial option
- O 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)

%1 8 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

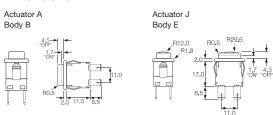
BioCote antimicrobial additive. Independently verified to ISO22196:2007.

3mm contact gap.

Terminal	Function	Actuator	Body Code	Body Colour
C	2 Approvals & ratings vary with function 3 Single pole switches use terminals 1 & 2 (& 3)		Panel cut-out ** Bezel	
6.3 x 0.8	8300 Single Pole ON - OFF	A Standard actuator	B Standard body	B Black
	8301 Single Pole ON - OFF (momentary ON)	H Slotted for custom caps	21.0	W White
A 3.7.6 As 74° but right angle 4.8 x 0.8	8303 Single Pole ON - OFF With Light	Slots for snap-in buttons C Square actuator	Softline style body with radiused bezel	
	8304 Single Pole ON - OFF (momentary ON) with light		12.9 1 15.6 Cut-outs must be punched in the direction of insertion	
K	8350 Double pole ON - OFF	Radiused actuator	Dimensions for snap-in fixing Panel thickness Dimension X	
* H 15 15 28×08	8351 Double pole ON - OFF (momentary ON)	F Small round actuator	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.	
т	8353 Double pole ON - OFF With light	J Smooth curved actuator	Additional dummy terminals may be supplied for extra support.	
2.6—0 — 7.0 2.5—1.5 Solder	8354 Double pole ON - OFF (momentary ON) with light	M		
x v	8355 Single pole ON - OFF Isolated light - switched			
4.5	Isolated light - switched C, E & M actuators only 8356 Single pole ON - OFF Isolated light - unswitched C, E & M actuators only	Large round actuator		



Dimensions



Examples







⊞ H8353JE - - -⊞ T8353JE - - -



⊎ H8353EB - - -⊎ T8353EB - - -



ਚ H8353CB - - -ਚ T8353CB - - -

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

8200 Series Push Button

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





Key Features

- O Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Without button
- O Sub panel mount
- O 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 **11** UL 85°C, file E45221, CSA file LR10990

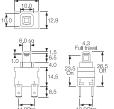
3mm contact gap.

Terminal	Function	Actuator	Body Code
C 10.1 0.3 × 0.8	Approvals & ratings vary with function Single pole switches use terminals 1 & 2 (& 3) 8200 Single Pole ON - OFF	A Standard actuator for snap-on custom adaptors	A Standard body
As +1" but right angle 4.8 x 0.8	8201	Flat top actuator	C As standard body but with side support peg for use with M PCB terminals
2.6	8201 Single Pole ON - OFF (momentary ON)	Examples of possible actuation methods Using a Snap on adaptor	X and V PCB terminals. Additional dummy terminals may be supplied for extra support.
T V 2.6	8250 Double Pole ON - OFF	Using a Hinged Actuator	
X 4.5	8251 Double Pole ON - OFF (momentary ON)		

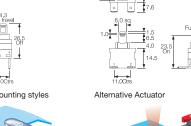


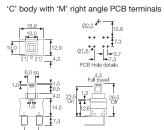
Dimensions

'A' body with 'H' 4.8 terminals



Example of possible mounting styles









'A' body with 'A' right angle 4.8 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
- O Low profile version
- O Panel cut outs: 25.0 dia 27.2 x 22.3

Approvals and specifications

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

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

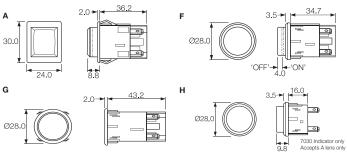
3mm contact gap.

Terminal Function Actuator Bo	ody Code
	ou, couc
TOOO Single Pole (momentary) ON - OFF TOO4 Single Pole (momentary) with light ON - OFF TOO4 Single Pole (momentary) with light ON - OFF TOO5 Single Pole (momentary) with light ON - OFF TOO5 Single Pole (momentary) with light ON - OFF TOOO4 Single Pole (momentary) with light ON - OFF TOOO4 Single Pole (momentary) with light ON - OFF TOOO4 Single Pole (momentary) with light ON - OFF TOOO4 Single Pole (momentary) with light ON - OFF	pes fit either cut-out 25.0/25.2 023.5/23.7
CSA LR29381	



Dimensions

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



Examples









C7000AF - - -

☐ C7003AF - - -

C7050SA - - -

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Body Colour	Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
	LIT				Finish
В	Α				Matt finish is standard on bodies. Gloss finish is standard on actuators.
Black	Amber	None			Colour
					Call sales for custom colours. A full range is available for large orders
W	C	2			Legend printing
White	Clear	125V Neon			A wide range is available or call sales for custom legends.
	G	3			Lamp voltage Call sales for details of available voltage
	Green	250V Neon			
					Weatherproof housing (E) Additional housing which fits round bo
	R	7			switches with an oversize housing with clear silicone cover designed to IP65.
	Red	12V Filament			Mounting hole dia: 38.0mm
		8			
		24V			
	UNLIT	Filament			
	В				
	Black				
	R				
	Red				
	W				
	White				

0911 Push Button Switches 0.5A 250Vac





Key Features

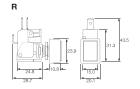
- Snap action switches
- Ratings up to 16A, 250Vac
- O Round and rectangular buttons

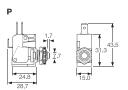
Approvals and specifications

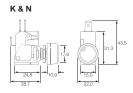
% 16A 125/250Vac 3/4hp T85 50E3 125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc

Approvals apply to switch mechanism only. μ contact gap.

Dimensions







Terminal	Function	Actuator	Body Code	Options
12.0	0911 (momentary) ON - ON	R Rectangular bezel P Short	Panel Cut-out Panel thickness Both nuts 2.5mm No backnut 4.0mm	Call factory for custom colours
		K with satin chrome bezel N with nylon bezel		

0916 - 0920 Push Button Switches









Key Features

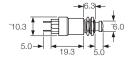
- O Self wiping contacts
- O Slow make & break
- Momentary action
- Choice of switch circuits
- Choice of actuators

Approvals and specifications

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

Dimensions

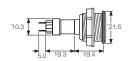
Dimensions (mm) Nylon S and L actuators





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 3.3 0 1 5.0 1.2 Solder	O916 Black base SP ON - OFF (momentary) O917 50V only Brown base SP ON - OFF (momentary 1 side) O918 White base SP ON - OFF (momentary OFF) O919 Black base DP ON - OFF (momentary 1 side) O920 White base DP ON - OFF (momentary 1 side)	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.