

Well known for their quality and reliability, **Bulgin's toggle switches** are **cost effective** solutions to many existing applications. These switches offer features at an attractive price point often well below that of the existing competition.

- ⬡ Nylon and Metal switch variants
- ⬡ Multiple Lever Options
- ⬡ Ratings up to 20A, 250V ac - 277V ac
- ⬡ IP67 panel seal versions, supplied complete with gaskets (3900 Series – All Variants)
- ⬡ Single and double Contact
- ⬡ Choice of circuit options including 3 position and momentary
- ⬡ Mounting hole: 12.2mm diameter.
- ⬡ Sealing accessories available
- ⬡ Quick Connect, Solder, Screw and PCB Termination Options



# 3900 Metal Toggle Switches

16A 250Vac - IP67 Sealed Versions



## Key Features

- Metal toggle switches
- Ratings up to 20A, 277V ac
- Single and double Contact
- Choice of circuits including 3 position and momentary
- Sealed version supplied complete with gaskets
- Panel seal version to IP67
- 6.3mm terminals
- Guard option

Terminal	Function	Actuator	Body	Options
<p><b>C</b></p> <p>6.3 x 0.8</p> <p><b>S</b></p> <p>Screw &amp; Clamp</p> <p><b>T</b></p> <p>10.5</p> <p>Ø 3.1</p> <p>Solder</p>	<p>Single Contact</p> <p><b>3900</b></p> <p>ON - OFF</p> <p><b>3901</b></p> <p>ON - OFF (momentary ON)</p> <p><b>3902</b></p> <p>ON - OFF (momentary OFF)</p> <p><b>3910</b></p> <p>ON - ON</p> <p><b>3911</b></p> <p>ON - ON (momentary 1 side)</p> <p><b>3920</b></p> <p>ON - OFF - ON µ</p> <p><b>3921</b></p> <p>ON - OFF - ON µ (momentary 1 side)</p> <p><b>3922</b></p> <p>ON - OFF - ON µ (momentary 2 sides)</p> <p><b>Double Contact</b></p> <p><b>3950</b></p> <p>ON - OFF</p> <p><b>3951</b></p> <p>ON - OFF (momentary ON)</p> <p><b>3952</b></p> <p>ON - OFF (momentary OFF)</p> <p><b>3960</b></p> <p>ON - ON</p> <p><b>3961</b></p> <p>ON - ON (momentary 1 side)</p> <p><b>3970</b></p> <p>ON - OFF - ON µ</p> <p><b>3971</b></p> <p>ON - OFF - ON µ (momentary 1 side)</p> <p><b>3972</b></p> <p>ON - OFF - ON µ (momentary 2 sides)</p>	<p><b>A</b></p> <p>10.0</p> <p>Metal toggle finish is nickel plate</p> <p><b>B</b></p> <p>17.5</p> <p>Metal toggle finish is nickel plate</p> <p><b>D</b></p> <p>25.4</p> <p><b>E</b></p> <p>38.1</p> <p>Metal toggle finish is nickel plate</p> <p><b>F</b></p> <p>17.5</p> <p>Metal toggle finish is nickel plate</p>	<p><b>A</b> Single Contact</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.5 17.0</p> <p><b>E</b> Panel sealed, single Contact</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.5 17.0</p> <p><b>A</b> Double Contact, without barrier</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.0 30.6</p> <p><b>B</b> Double Contact, with barrier</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.0 30.6</p> <p><b>F</b> Panel sealed, double Contact, with terminal barrier</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.0 31.1</p> <p>Switches with F toggles have double Contact bodies, regardless of circuit</p> <p><b>G</b> Panel sealed, double Contact, without terminal barrier</p> <p>Thread: 15/32" x 32TPI</p> <p>17.5 10.0 31.1</p>	<p>Neck Seal M539 Actuator is visible</p> <p>Cover M1080</p> <p>Covers have internal nylon nuts</p> <p>M1080-2</p> <p>Covers have internal metal hex nuts</p> <p>Fixing nuts Nickel plated brass are supplied</p> <p>14.0 2.0 15.0 2.3</p> <p>Knurled Front nut Panel thickness 4.0 with backnut</p> <p>Plate P236 Plate SP or DP</p>

## Approvals and specifications

UL/CSA Ratings 3901, 3902, 3920, 3921, 3922  
16A, 277Vac  
1 HP, 250Vac

7A, 72Vdc  
14A, 36Vdc

3910, 3901, 3952, 3960, 3961, 3970, 3971, 3972  
16A, 277Vac  
1 HP, 250Vac  
1/2 HP, 125Vac  
7A, 72Vdc  
14A, 36Vdc

3900, 3950  
20A, 277Vac  
1 HP, 250Vac  
1/2 HP, 125Vac  
7A, 72Vdc  
14A, 36Vdc

ENEC Ratings  
3900, 3901, 3902, 3950, 3952, 3960, 3961  
16(4)A 250Vac

3910, 3911, 3920, 3921, 3922, 3951, 3970, 3972  
10 4)A 250Vac

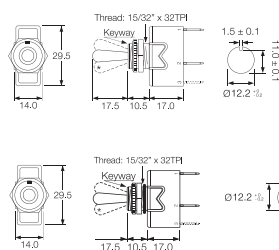
Approvals and ratings vary with function.  
3mm contact gap except where marked  $\mu$ .

\* CSA approval for A and B bodies only

## Dimensions mm) \* Indicates ON position (for ON - OFF switches)

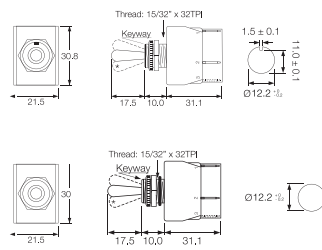
### Single Contact

(C terminals shown)



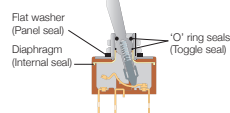
### Double Contact

(C terminals shown with barrier)



### Toggle Switch - sealed version

BE and BF types



### Guard TG1-RED



## Examples



C3900BE ---



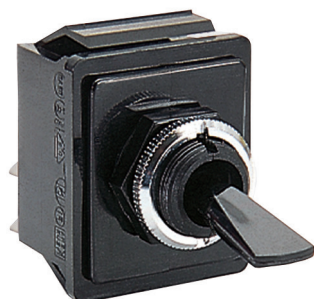
C3920BA ---



C3950BF ---



C3972BB ---



## Key Features

- Nylon toggle switches
- Ratings up to 20A, 250V ac
- Single and double Contact
- Wide choice of terminals
- Choice of circuit options including 3 position
- Flat & round actuator options

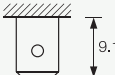





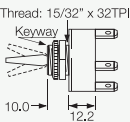

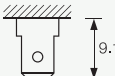


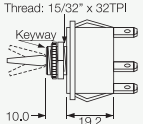

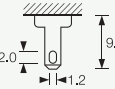





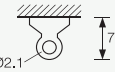

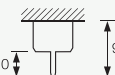

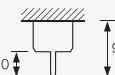




## Approvals and specifications

16(4)A 250Vac T85

UL 20A 250Vac Non Ind (Single Contact)  
UL 16A 250Vac Non Ind (Double Contact)  
UL CSA (2 pos types) 250Vac 1hp, 125Vac 1/2hp  
UL CSA (3 pos types) 250Vac 1/2hp, 125Vac 1/4hp  
CSA 16A 250Vac Non Ind  
UL 85°C, file E45221, CSA file LR10990  
UL and CSA N/A on momentary types

Selective "A, B, C" and "OFF, A, A+B" circuits at 5 amp also available.

3mm contact gap except where marked  $\mu$ .

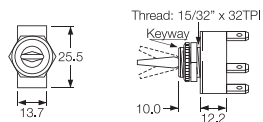
Terminal	Function	Actuator	Body	Options
<div>C</div> 	<div> Single Contact</div> <div> Double Contact</div> <div><b>1700</b> ON - OFF </div> <div><b>1750</b> ON - OFF </div>	<div>H</div> 	<div>O Single Contact</div> <div>Thread: 15/32" x 32TPI</div> 	<div>Neck Seal M539</div> <div>Material - Nitrile (H &amp; R Actuators) Actuator visible</div> 
<div>H</div> 	<div><b>1710 <math>\mu</math></b> ON - ON </div> <div><b>1760 <math>\mu</math></b> ON - ON </div>		<div>O Double Contact</div> <div>Thread: 15/32" x 32TPI</div> 	<div>Cover M1080</div> <div>Material - EPDM (R Actuator only)</div> 
<div>K</div> 	<div><b>1720 <math>\mu</math></b> ON - OFF - ON </div> <div><b>1770 <math>\mu</math></b> ON - OFF - ON </div>	<div>R</div> 	<div>Panel hole (all types)</div> <div>Panel thickness (Max) Both nuts - 3.5mm Less backnut - 6.5mm</div> 	<div>Cover M531</div> <div>Material - PVC (R Actuator only)</div> 
<div>T</div> 	<div><b>1721 <math>\mu</math></b> ON - OFF - ON <math>\mu</math> (momentary 1 side) </div> <div><b>1722</b> ON - OFF - ON <math>\mu</math> (momentary 2 sides) </div>		<div>The switch is on between centre terminals (2 &amp; 5) and the terminals over which the lever is positioned.</div>	<div>Fixing nuts</div> <div>(Standard is M506 &amp; T92)</div> <div>T5 Hex brass M506 Hex nylon</div> 
<div>X</div> 			<div>Panel hole (all types)</div> <div>Panel thickness (Max) Both nuts - 3.5mm Less backnut - 6.5mm</div> 	<div>T92 Knurled brass - slotted</div> 
				<div>M279 Knurled nylon</div> 
				<div>Plate P236</div> <div>Plate SP or DP</div> 

## Dimensions

mm) \* Indicates ON position (for ON - OFF switches)

### Single Contact

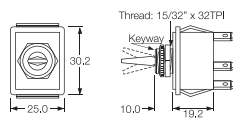
(C terminals shown)



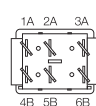
Optional  
F00232PAAA  
plate SP or DP

### Double Contact

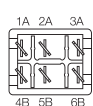
(C terminals shown)



Without barrier



With barrier



## Examples



C1700R - -



C1700H - -



C1760R - -



C1750H - -