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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 pole

◯ Choice of circuit options including 3 position and momentary

◯ Mounting hole: 12.7mm diameter.

◯ Sealing accessories available

◯ Quick Connect, Solder, Screw and PCB Termination Options
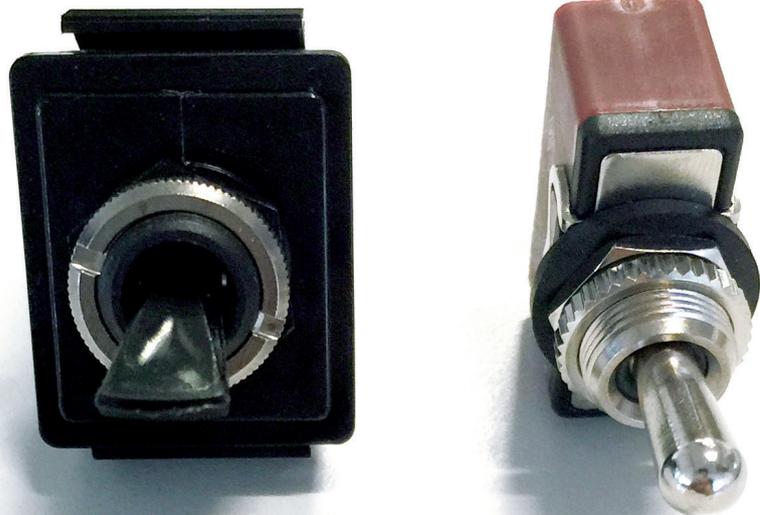
3900 Metal Toggle Switches

16A 250Vac - IP67 Sealed Versions

bulgin

Key Features

- Metal toggle switches
- Ratings up to 20A, 277V ac
- Single and double pole
- 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

Terminal

C

10.5

4.8 x 0.8

T

7.0

Ø2.1

S

9.7

Screw & Clamp
N/A for assemblies
with 3 terminals

Function

Single Pole

3900
ON - OFF

3901
ON - OFF
(momentary ON)

3902
ON - OFF
(momentary OFF)

3910
ON - ON

3911
ON - ON
(momentary 1 side)

3920
ON - OFF - ON µ

3921
ON - OFF - ON µ
(momentary 1 side)

3922
ON - OFF - ON µ
(momentary 2 sides)

Double Pole

3950
ON - OFF

3951
ON - OFF
(momentary ON)

3952
ON - OFF
(momentary OFF)

3960
ON - ON

3961
ON - ON
(momentary 1 side)

3970
ON - OFF - ON µ

3971
ON - OFF - ON µ
(momentary 1 side)

3972
ON - OFF - ON µ
(momentary 2 sides)

Actuator

A
10.0

Metal
Metal toggle finish is
nickel plate

B
17.5

Metal
Metal toggle finish is
nickel plate

D
25.4

E
38.1

Metal toggle finish is
nickel plate

F
17.5

Metal toggle finish is
nickel plate

Body

A Single pole
Thread: 15/32" x 32TPI
Keyway
17.5 10.5 17.0

E Panel sealed, single pole
Thread: 15/32" x 32TPI
Keyway
Panel
Seal
17.5 10.5 17.0

A Double pole, without barrier
Thread: 15/32" x 32TPI
Keyway
17.5 10.0 30.6

B Double pole, with barrier
Thread: 15/32" x 32TPI
Keyway
17.5 10.0 30.6

F Panel sealed, double pole, with terminal barrier
Thread: 15/32" x 32TPI
Keyway
Panel
Seal
17.5 10.0 31.1

Switches with F toggles have
double pole bodies, regardless of circuit

G Panel sealed, double pole, without terminal barrier
Thread: 15/32" x 32TPI
Keyway
Panel
Seal
17.5 10.0 31.1

Options

Neck Seal M539
Actuator is visible

Cover M1080

Covers have internal nylon nuts

M1080-2

Covers have internal metal hex nuts

Fixing nuts
Nickel plated brass are supplied

14.0   2.0   15.0   2.3

Knurled Front nut
Panel thickness 4.0 with backnut

Plate P236
Plate SP or DP

OFF
ON

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

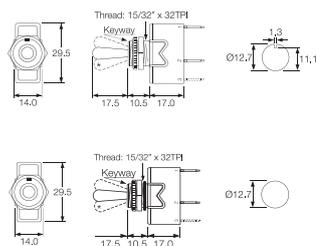3910, 3911, 3920, 3921, 3922, 3951, 3970, 3972
10 4)A 250Vac

Approvals and ratings vary with function.
3mm contact gap except where marked µ.

* CSA approval for A and B bodies only

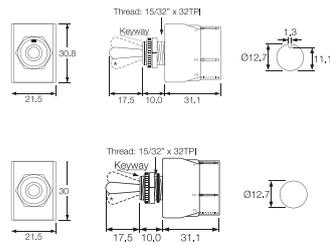## Dimensions   mm) * Indicates ON position (for ON - OFF switches)
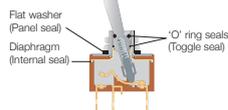
Single pole
(C terminals shown)

Double pole
(C terminals shown with barrier)

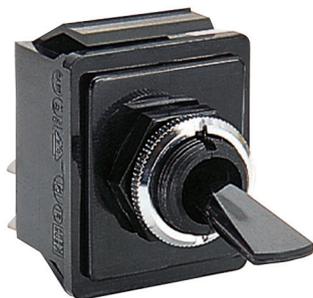### Toggle Switch - sealed version
BE and BF types

Flat washer (Panel seal)
Diaphragm (Internal seal)
'O' ring seals (Toggle seal)

Guard TG1-RED

Examples

C3900BE - - -   C3920BA - - -   C3950BF - - -   C3972BB - - -

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Key Features

◇ Nylon toggle switches

◇ Ratings up to 20A, 250V ac

◇ Single and double pole

◇ Wide choice of terminals

◇ Choice of circuit options including 3 position

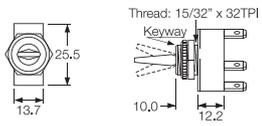◇ Flat & round actuator options

Approvals and specifications

☼ 16(4)A 250Vac T85

Ⓤ UL 20A 250Vac Non Ind (Single pole)
UL 16A 250Vac Non Ind (Double pole)
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 µ.

Terminal	Function		Actuator	Body	Options
C 9.1	Single Pole 1 2 3	Double Pole 4 5 6	**H** 16.4	**O** Single pole	**Neck Seal M539** Material - Nitrile (H & R Actuators) Actuator visible
	1700 ON - OFF	**1750** ON - OFF		Thread: 15/32" x 32TPI Keyway 10.0 12.2	
H 9.1					**Cover M1080** Material - EPDM (R Actuator only)
K 2.0 9.1 1.2	**1710 µ** ON - ON	**1760 µ** ON - ON	**R** 13.8	**O** Double Pole Thread: 15/32" x 32TPI Keyway 10.0 19.2	**Cover M531** Material - PVC (R Actuator only) Covers have internal nylon nuts
T Ø2.1 7.0	**1720 µ** ON - OFF - ON	**1770 µ** ON - OFF - ON		1.3 Ø12.7 11.1	**Fixing nuts** (Standard is M506 & T92)
X 4.0 9.1	**1721 µ** ON - OFF - ON µ (momentary 1 side)			Panel hole (all types) Panel thickness (Max) Both nuts - 3.5mm Less backnut - 6.5mm	T5 Hex brass M506 Hex nylon 15.2 3.0 (M506) 2.0 (T5)
			The switch is on between centre terminals (2 & 5) and the terminals over which the lever is positioned.		T92 Knurled brass - slotted 16.0 2.6
	1722 ON - OFF - ON µ (momentary 2 sides)				M279 Knurled nylon 16.2 4.1
					Plate P236 Plate SP or DP OFF ON

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

Single pole

(C terminals shown)

Thread: 15/32" x 32TPI

Keyway

25.5

13.7

10.0

12.2

OFF

ON

Optional
F00232PAAA
plate SP or DP

Double pole

(C terminals shown)

Thread: 15/32" x 32TPI

Keyway

30.2

25.0

10.0

19.2

Without barrier

1A 2A 3A

4B 5B 6B

With barrier

1A 2A 3A

4B 5B 6B
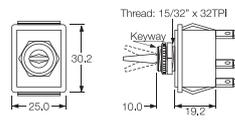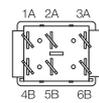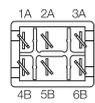
Examples

C1700R - -

C1700H - -

C1760R - -

C1750H - -