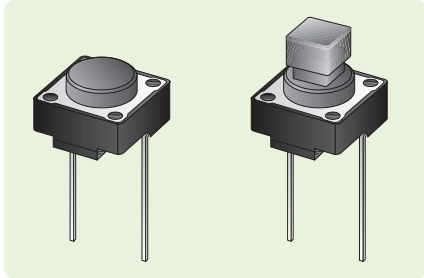


DIPTRONICS type DTST-6

A range of 6 x 6mm size tactile switches supplied in a radial taped package and offering a choice of button style. The switches feature high reliability with 500,000 cycle electrical life expectancy.



- ◆ 6 x 6mm size
- ◆ Radial taped
- ◆ Positive 'click' action and tactile feedback
- ◆ Choice of button style
- ◆ SPNO momentary contacts
- ◆ 2 terminal mounting
- ◆ High reliability, longer life
- ◆ Supplied taped & boxed

Specification

Contact arrangement.....	single pole, single throw 2 terminal normally open, momentary action	Travel.....	0.25mm
Contact rating.....	50mA, 12Vdc	Insulation resistance.....	100MΩ min. at 500Vdc
Contact resistance.....	100mΩ max.	Dielectric strength.....	250Vac for 1 minute
Operating force.....	100 ±50gf (black button)	Operating temp. range.....	-25°C to +70°C
		Life expectancy.....	500,000 cycles min. (electrical)

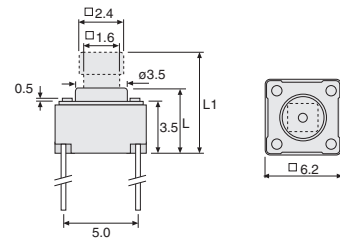
Choice of button style.

TAPE & BOX

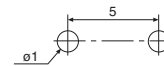
Button Style	Length	Manf. Part No.	anglia Order Code
Round	4.3 (L)	DTST-61K	448062T
Square	7.3 (L1)	DTST-644K	448061AT

TACTILE SWITCH CAPS
Round or Square
suitable for square button switches
see page 737

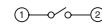
Dimensions (mm)



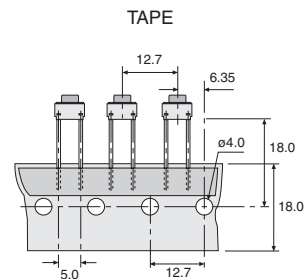
Footprint



Circuit Diagram



Packaging



DIPTRONICS type DTS-6 & DTSA-6

A range of 6 x 6mm size pcb mounting tactile switches offering a choice of button style, length and operating force, together with an option of mounting position. High reliability with up to 500,000 cycle electrical life expectancy.

Specification

Contact arrangement.....	single pole, single throw 4 terminal normally open, momentary action	Travel	0.25mm
Contact rating	50mA, 12Vdc	Insulation resistance.....	100MΩ min. at 500Vdc
Contact resistance.....	100mΩ max.	Dielectric strength.....	250Vac for 1 minute
Operating force.....	70 ±50gf (blue button) 100 ±50gf (black button) 160 ±50gf (brown button) 260 ±50gf (red button)	Operating temp. range.....	-25°C to +70°C
		Life expectancy.....	70 to 160gf = 500,000 cycles min. (electrical) 260gf = 50,000 cycles min. (electrical)

- ◆ 6 x 6mm size
- ◆ Positive 'click' action and tactile feedback
- ◆ Choice of button style, length and operating force.
- ◆ SPNO momentary contacts
- ◆ 4 terminal mounting
- ◆ Established footprint
- ◆ Mounting position option
- ◆ High reliability, longer life

ROUND BUTTON - type DTS-6/DTSA-6

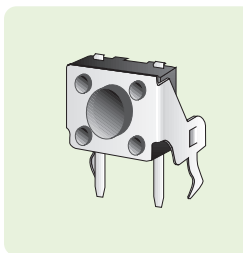
Choice of button length, operating force and mounting position.

VERTICAL



Button Length (L)	Operating Force (gf)	Manf. Part No.	anglia Order Code
4.3	100	DTS-61K	448062
4.3	160	DTS-61N	448062B
4.3	260	DTS-61R	448062C
5.0	100	DTS-62K	448063
5.0	160	DTS-62N	448063B
5.0	260	DTS-62R	448063C
7.0	100	DTS-63K	448064
7.0	160	DTS-63N	448064B
7.0	260	DTS-63R	448064C
9.5	100	DTS-65K	448065
9.5	160	DTS-65N	448065B
9.5	260	DTS-65R	448065C
13	100	DTS-66K	448067
13	160	DTS-66N	448067B
13	260	DTS-66R	448067C

RIGHT ANGLE

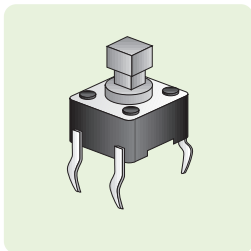


Button Length (L)	Operating Force (gf)	Manf. Part No.	anglia Order Code
3.85	100	DTSA-62K	448071
5.85	100	DTSA-63K	448073
8.35	100	DTSA-65K	448072

SQUARE BUTTON - type DTS-64/DTSA-64

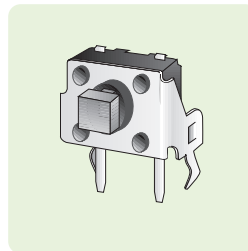
Choice of operating force and mounting position. Button 'shoulder' designed to accommodate actuator springs for tamper switch applications.

VERTICAL



Operating Force (gf)	Manf. Part No.	anglia Order Code
70	DTS-644U	448061
100	DTS-644K	448061A

RIGHT ANGLE

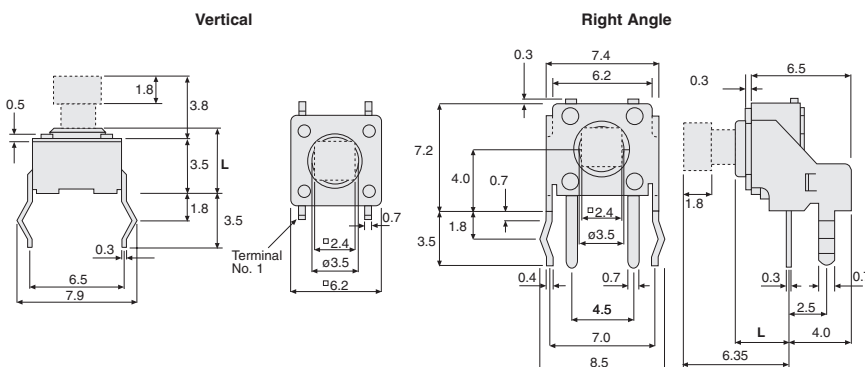


Operating Force (gf)	Manf. Part No.	anglia Order Code
70	DTSA-644U	448070
100	DTSA-644K	448070A

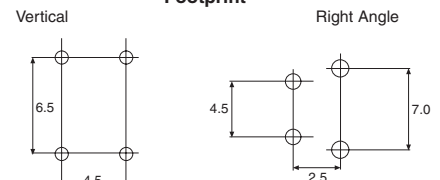
TACTILE SWITCH CAPS
Round or Square
suitable for square button switches
see page 737

N.B. These switches are not suitable for PCB washing, see page 732 for washable types.

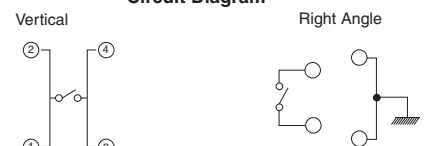
Dimensions (mm)



Footprint



Circuit Diagram



OMRON type B3F



A range of 6 x 6mm size pcb mounting tactile switches offering a positive tactile switch action with a choice of button style and mounting position. Available with flat or projected plunger with key cap facility. High reliability with up to 1,000,000 operations life expectancy.

Specification

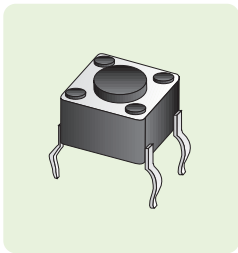
Contact arrangement..... single pole, single throw 4 terminal normally open, momentary action
 Contact rating 50mA, 24Vdc
 Contact resistance..... 100mΩ max.
 Bounce time 5ms max.

Travel 0.25mm
 Insulation resistance..... 100MΩ min. at 250Vdc
 Dielectric strength..... 500Vac for 1 minute
 Operating temp. range..... -25°C to +70°C
 Life expectancy..... 100gf = 1,000,000 ops min.
 260gf = 100,000 ops min.

- ◆ 6 x 6mm size
- ◆ Positive 'click' action and tactile feedback
- ◆ Choice of button style, length and operating force
- ◆ SPNO momentary contacts
- ◆ 4 terminal mounting
- ◆ Established footprint
- ◆ Mounting position option
- ◆ High reliability, longer life

ROUND BUTTON

VERTICAL

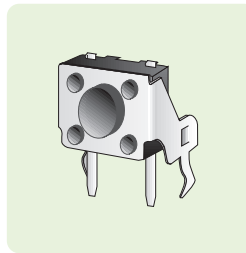


Button Length (L)	Operating Force (gf)
4.3	100
4.3	260
5.0	100
5.0	260
7.0	100
7.0	260
9.5	100
9.5	260

Manf. Part No. & anglia Order Code

- B3F-1000
- B3F-1005
- B3F-1020
- B3F-1025
- B3F-1060
- B3F-1065
- B3F-1070
- B3F-1075

RIGHT ANGLE



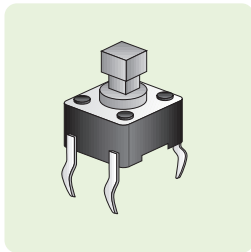
Button Length (L)	Operating Force (gf)
3.15	100
3.85	100

Manf. Part No. & anglia Order Code

- B3F-3100
- B3F-3120

SQUARE BUTTON

VERTICAL

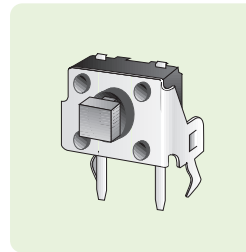


Operating Force (gf)
100
260

Manf. Part No. & anglia Order Code

- B3F-1050
- B3F-1055

RIGHT ANGLE



Operating Force (gf)
100

Manf. Part No. & anglia Order Code

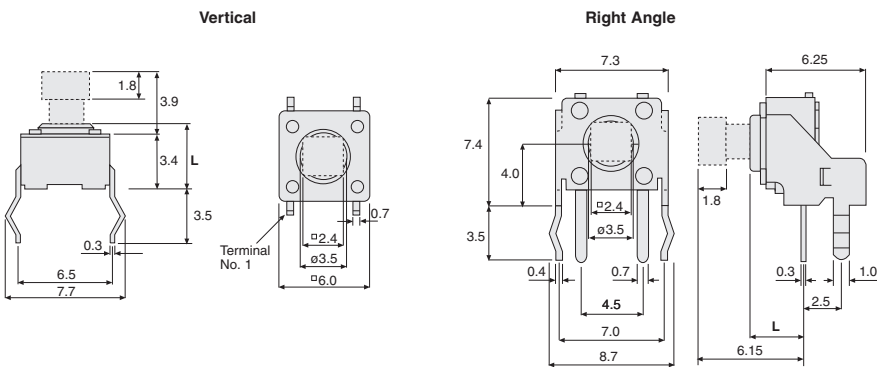
- B3F-3150

OPTIONS

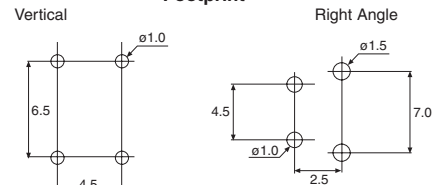
A wide variety of keycaps are available to special order

N.B. These switches are not suitable for PCB washing, see page 733 for washable types.

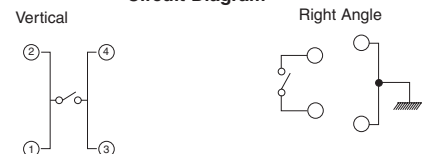
Dimensions (mm)



Footprint



Circuit Diagram



DIPTRONICS type DTSJW, DTSMW & DTSHW-6



A range of surface mount and through hole washable tactile switches with a round button. Choice of button length and operating force. Lead form and packaging option on surface mount parts. Designed to meet the increasing demand for sealed tactile switches to withstand pcb washing.

Specification

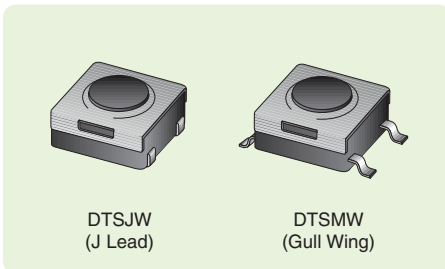
Contact arrangement..... single pole, single throw 4 terminal normally open, momentary action
 Contact rating 50mA, 12Vdc
 Contact resistance..... 100mΩ max.
 Operating force..... 160gf ±50gf (silver button, L = 2.3) (brown button, L = 3.1) 180gf ±50gf (brown button, L = 3.8) 260gf ±50gf (red button)

Travel 0.25mm
 Insulation resistance..... 100MΩ min. at 500Vdc
 Dielectric strength 250Vac for 1 minute
 Operating temp. range..... -25°C to +70°C
 Life expectancy..... 100,000 cycles min. (electrical) for DTS*W - 66N, 68S 500,000 cycles min. (electrical) for DTS*W - 69N, 69R

- ◆ 6 x 6mm size
- ◆ Sealed construction suitable for pcb washing
- ◆ SMD or through hole
- ◆ Positive 'click' action and tactile feedback
- ◆ Choice of button length and operating force
- ◆ SPNO momentary contacts
- ◆ 4 terminal mounting

SURFACE MOUNT type DTSJW & DTSMW

Choice of button length, operating force, lead form and packaging method.



Button Length (L)	Operating Force (gf)	Manf. Part No.	anglia Order Code	Manf. Part No.	anglia Order Code
DTSJW (J Lead)					
2.3(flush)	160	DTSJW-68S-B	ST068JW	DTSJW-68S-T/R	ST068JWR
3.1	160	DTSJW-66N-B	ST066JW	DTSJW-66N-T/R	ST066JWR
3.8	180	DTSJW-69N-B	ST069JW	DTSJW-69N-T/R	ST069JWR
3.8	260	DTSJW-69R-B	ST069CJW	DTSJW-69R-T/R	ST069CJWR
DTSMW (Gull Wing)					
2.3(flush)	160	DTSMW-68S-B	ST068W	DTSMW-68S-T/R	ST068WR
3.1	160	DTSMW-66N-B	ST066W	DTSMW-66N-T/R	ST066WR
3.8	180	DTSMW-69N-B	ST069W	DTSMW-69N-T/R	ST069WR
3.8	260	DTSMW-69R-B	ST069CW	DTSMW-69R-T/R	ST069CWR

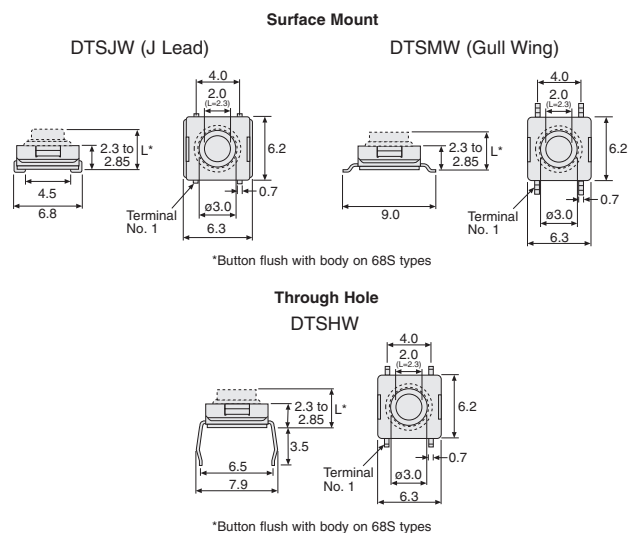
THROUGH HOLE type DTSHW

Choice of button length and operating force. Supplied in tubes.

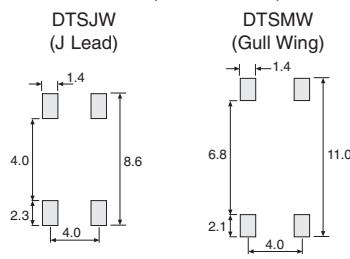


Button Length (L)	Operating Force (gf)	Manf. Part No.	anglia Order Code
2.3(flush)	160	DTSHW-68S-B	448068W
3.1	160	DTSHW-66N-B	448066W
3.8	180	DTSHW-69N-B	448069W
3.8	260	DTSHW-69R-B	448069CW

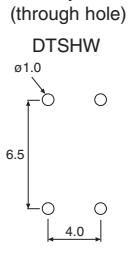
Dimensions (mm)



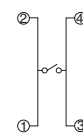
Pad Pattern (surface mount)



Footprint (through hole)



Circuit Diagram (all types)



Packaging (surface mount)

TAPE : 16mm wide, 8mm pitch

REEL : 330mm dia.

OMRON type B3SN, B3S & B3W



A range of surface mount and through hole washable tactile switches with a round button. Choice of button length and operating force. Lead form and packaging option on surface mount parts. Designed to meet the increasing demand for sealed tactile switches to withstand pcb washing.

Specification

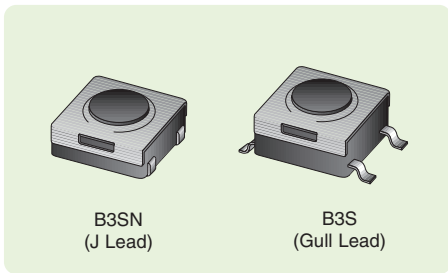
Contact arrangement..... single pole, single throw 4 terminal normally open, momentary action
 Contact rating..... B3S, B3SN = 30mA, 24Vdc
 B3W = 50mA, 24Vdc
 Contact resistance 100mΩ max
 Bounce Time (max) 5ms
 Travel 0.25mm
 Insulation Resistance 100MΩ min. at 250Vdc

Dielectric strength B3SN = 250Vac for 1 minute
 B3S, B3W = 500Vac for 1 minute
 Operating temp range -25°C to 70°C
 Life expectancy..... B3SN (160gf) = 100,000 ops min.
 B3S (160gf) = 500,000 ops min.
 (230gf) = 300,000 ops min.
 B3W (160gf) = 1,000,000 ops min.
 (230gf) = 300,000 ops min.

- ◆ 6 x 6mm size
- ◆ Sealed construction suitable for pcb washing
- ◆ SMD or through hole
- ◆ Positive 'click' action and tactile feedback
- ◆ Choice of operating force
- ◆ SPNO momentary contacts
- ◆ 4 terminal mounting

SURFACE MOUNT type B3SN & B3S

Choice of lead form and packaging method.



Button Length (L)	Operating Force (gf)	Ground Pin
B3SN (J Lead) low profile body		
3.1	160	No
3.1	160	Yes
B3S (Gull Wing)		
4.3	160	No
4.3	230	No



Manf. Part No. & anglia Order Code
B3SN-3012
B3SN-3112
B3S-1000
B3S-1002

Manf. Part No. & anglia Order Code
B3SN-3012P
B3SN-3112P
B3S-1000P
B3S-1002P

THROUGH HOLE type B3W



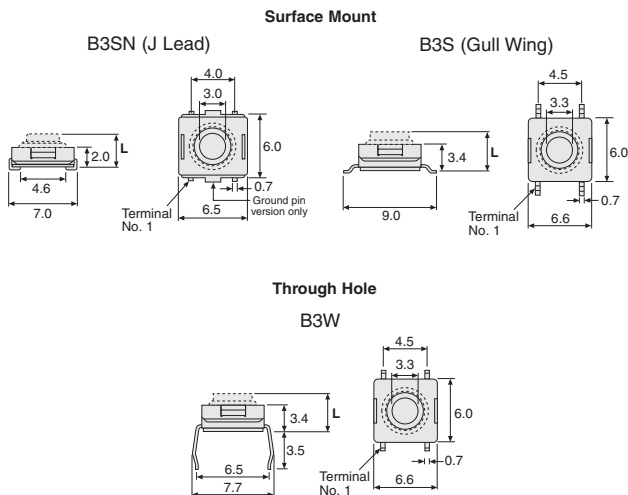
Button Length (L)	Operating Force (gf)
4.3	160

Manf. Part No. & anglia Order Code
B3W-1000

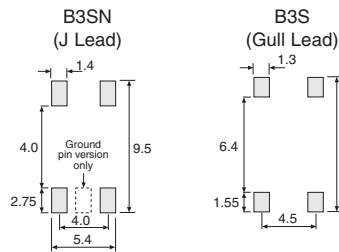
OPTIONS

- Versions with grounding pin for ESD
 - Other operating forces
- Available to special order

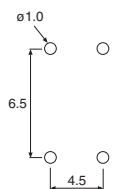
Dimensions (mm)



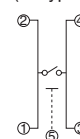
Pad Pattern (surface mount)



Footprint (through hole) B3W



Circuit Diagram (all types)



Packaging (surface mount)

B3SN - TAPE : 12mm wide, 8mm pitch REEL : 380mm dia.
 B3S - TAPE : 16mm wide, 12mm pitch REEL : 330mm dia.