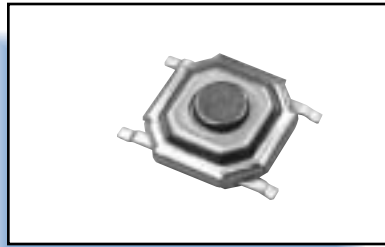
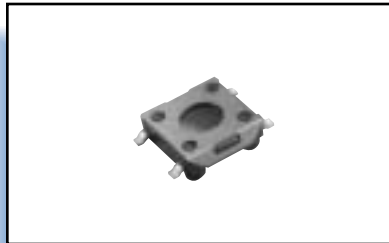




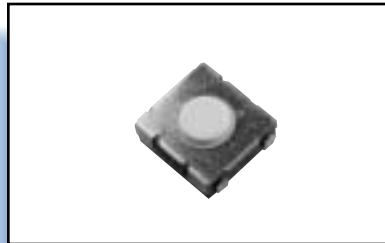
FSM Series - Page E3



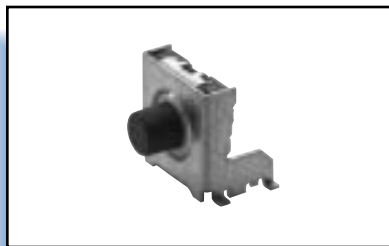
4.9mm Series - Page E11



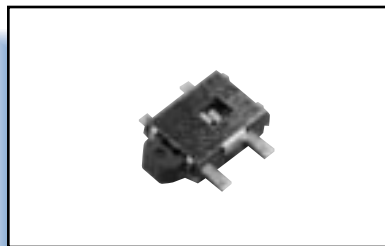
Low Profile Series - Page E12



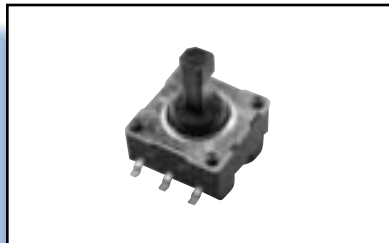
High Life Tactile - Page E12



Sealed Series - Page E27



Side Actuated - Page E29



Multi-Directional Actuation - Page E30

Tactile

E

Tactile Switches

Tactile Switches Part Number Index

FSME3
 FSM100E16
 FSM100AE16
 FSM101E16
 FSM102E17
 FSM102AE17
 FSM103E17
 FSM104E17
 FSM104E17
 FSM10JE5
 FSM10JAE5
 FSM10JAAE5
 FSM10JLE5
 FSM11JE5
 FSM11JAE5
 FSM11JAAE5
 FSM11JLE5
 FSM12JE5
 FSM12JAE5
 FSM12JAAE5
 FSM12JLE5
 FSM13JE5
 FSM13JAE5
 FSM13JAAE5
 FSM13JLE5
 FSM14JE5
 FSM14JAE5
 FSM14JAAE5
 FSM14JLE5
 FSM14JRTE6
 FSM15JE5
 FSM15JAE5
 FSM15JAAE5
 FSM15JLE5
 FSM16JE5
 FSM16JAE5
 FSM16JAAE5
 FSM16JLE5
 FSM17JE5
 FSM17JAE5
 FSM17JAAE5
 FSM17JLE5
 FSM18JE5
 FSM18JAE5
 FSM18JAAE5
 FSM18JLE5
 FSM1JE4,E5
 FSM1JAE5
 FSM1JAAE5
 FSM1JLE5
 FSM1LPE15
 FSM1LPAE15
 FSM1LPATRE15
 FSM1LPTRE15
 FSM201AE16
 FSM2JE4,E5
 FSM2JAE5
 FSM2JAAE5
 FSM2JARTE6
 FSM2JLE5
 FSM2JRTE6
 FSM2JSMAE10
 FSM2JSMAAE10
 FSM2JSMAATRE10
 FSM2JSMATRE10
 FSM3JE5
 FSM3JAE5
 FSM3JAAE5
 FSM3JLE5
 FSM4JE5

FSM4JAE5
 FSM4JAAE5
 FSM4JARTE6
 FSM4JLE5
 FSM4JRTE6
 FSM4JSMAE10
 FSM4JSMAAE10
 FSM4JSMAATRE10
 FSM4JSMATRE10
 FSM4LPE15
 FSM4LPTRE15
 FSM5JE5
 FSM5JAE5
 FSM5JAAE5
 FSM5JLE5
 FSM6JE5
 FSM6JAE5
 FSM6JAAE5
 FSM6JARTE6
 FSM6JLE5
 FSM6JRTE6
 FSM6JSMAE10
 FSM6JSMAAE10
 FSM6JSMAATRE10
 FSM6JSMATRE10
 FSM7JE5
 FSM7JAE5
 FSM7JAAE5
 FSM7JLE5
 FSM8JE5
 FSM8JAE5
 FSM8JAAE5
 FSM8JARTE6
 FSM8JLE5
 FSM8JRTE6
 FSM8JSMAE10
 FSM8JSMATRE10
 FSM9JE5
 FSM9JAE5
 FSM9JAAE5
 FSM9JLE5
 FSMCE3
 FSMCDE8
 FSMCDAE8
 FSMCTATRE11
 FSMCTTRE11
 FSMJM3.5ATRE9
 FSMJM4.3E9
 FSMJM4.3ATRE9
 FSMJM4.3TRE9
 FSMJM5.0ATRE9
 FSMRA 1JE7
 FSMRA 1JLE7
 FSMRA 2JE7
 FSMRA 2JAE7
 FSMRA 2JHE7
 FSMRA 2JLE7
 FSMRA 3JE7
 FSMRA 3JLE7
 FSMRA 4JE7
 FSMRA 4JAE7
 FSMRA 4JLE7
 FSMRA 5JE7
 FSMRA 5JLE7
 FSMRA 6JE7
 FSMRA 6JLE7
 FSMRA 7JE7
 FSMRA 7JLE7
 FSMRA 8JE7

FSMRA 8JLE7
 FSMRACDE8
 FSMRACDAE8
 FSMMSME9
 FSMMSMTRE9
 1571217E18
 1571218E19
 1571219E20
 1571220E21
 1571262E29
 1571294E22
 1571295E24
 1571296E23
 1571297E26
 1571298E25
 1571300E27
 1571407E28
 1571514E30
 1571515E30
 1571625E12
 1571626E13
 1571636E14

E Tactile Switches

Tactile Switches, .138 [3.5] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

ContactsStainless/Silver clad plate
 Case MaterialNylon
 Actuator MaterialPBT
 Terminals/Fixed Contacts.....Copper alloy, Silver/Nickel

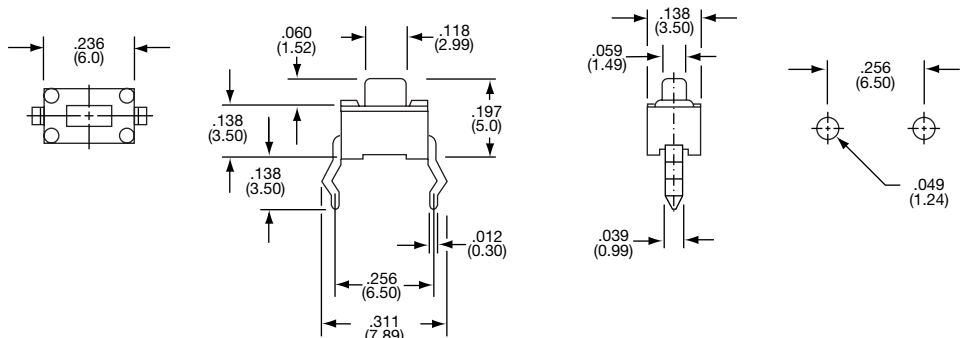
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation Force130±50 Grams
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 20,000 Cycles



ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to + 85°C)
 Storage Temperature.....-40°F to +185°F (-40°C to + 85°C)
 Solder Heat ResistanceSee Page M3-4

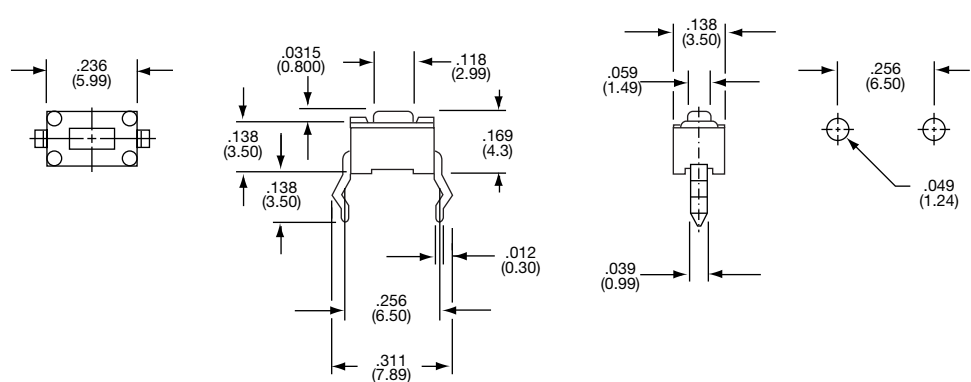
3.5 x 6mm





FSM

Tyco Electronics	Alcoswitch	Type		
1437565-1	FSM	SPST	Off	(On) (On) indicates momentary position.

3.5 x 6mm



FSMC

Tyco Electronics	Alcoswitch	Type		
7-1437565-6	FSMC	SPST	Off	(On) (On) indicates momentary position.

Tactile Switches, .236 [6] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver plate
 Case.....Polyamide
 Actuator ButtonPolyacetal Resin
 FrameSteel, tin plate
 TerminalsCopper alloy, silver plate

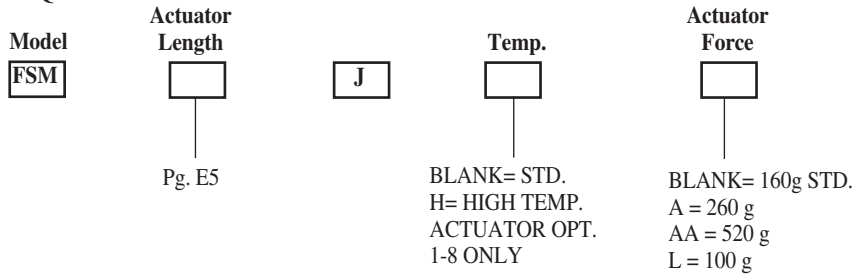
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Actuation ForceSee page E5
 Actuator Travel......012" (0,3)
 Electrostatic Discharge
 w/ESD Ground Terminal5Kv w/no discharge
 Life ExpectancyUp to 100,000 Cycles

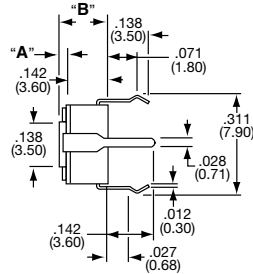
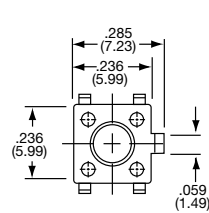
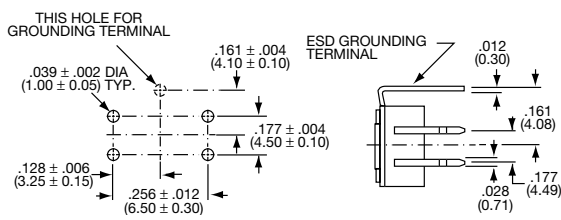
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°F to +221°F (-40°C to +105°C)
 Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
 Solder Heat ResistanceSee Page M3-4

PART NUMBERING SEQUENCE



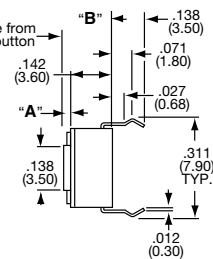
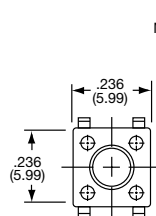
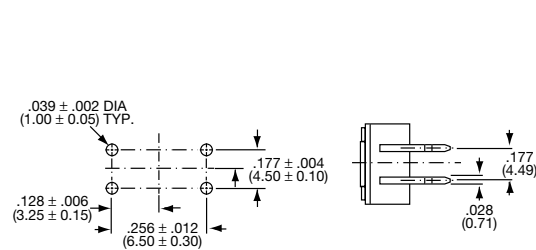
E
FSMJ Series



6 x 6 mm



FSMJ WITH ESD TERMINAL



6 x 6 mm



FSM2J WITHOUT ESD TERMINAL

Tactile Switches, .236 [6] x .236 [6], Through Hole (Continued)

TYCO Electronics Part Number	ALCO Part Number	DIMENSIONS		Actuation Force	Actuator Material	Life Cycles
		A	B			
With Ground Terminal						
1-1437565-5	FSM1J	0.028 (0.70)	0.169 (4.30)	160±50gf	PBT	100,000
—	FSM1JAA	0.028 (0.70)	0.169 (4.30)	260±50gf	PBT	100,000
—	FSM1JAA	0.028 (0.70)	0.169 (4.30)	520±100gf	PBT	100,000
—	FSM1JL	0.028 (0.70)	0.169 (4.30)	100±50gf	PBT	100,000
3-1437565-3	FSM3J	0.055 (1.40)	0.196 (5.00)	160±50gf	PBT	100,000
—	FSM3JA	0.055 (1.40)	0.196 (5.00)	260±50gf	PBT	100,000
—	FSM3JAA	0.055 (1.40)	0.196 (5.00)	520±100gf	PBT	100,000
—	FSM3JL	0.055 (1.40)	0.196 (5.00)	100±50gf	PBT	100,000
4-1437565-4	FSM5J	0.134 (3.40)	0.276 (7.00)	160±50gf	ACETAL	100,000
—	FSM5JA	0.134 (3.40)	0.276 (7.00)	260±50gf	ACETAL	100,000
—	FSM5JAA	0.134 (3.40)	0.276 (7.00)	520±100gf	ACETAL	100,000
—	FSM5JL	0.134 (3.40)	0.276 (7.00)	100±50gf	ACETAL	100,000
5-1437565-1	FSM7J	0.232 (5.90)	0.374 (9.50)	160±50gf	PBT	100,000
—	FSM7JA	0.232 (5.90)	0.374 (9.50)	260±50gf	PBT	100,000
—	FSM7JAA	0.232 (5.90)	0.374 (9.50)	520±100gf	PBT	100,000
—	FSM7JL	0.232 (5.90)	0.374 (9.50)	100±50gf	PBT	100,000
7-1437565-5	FSM9J	0.146 (3.70)	0.287 (7.30)	160±50gf	ACETAL	100,000
—	FSM9JA	0.146 (3.70)	0.287 (7.30)	260±50gf	ACETAL	100,000
—	FSM9JAA	0.146 (3.70)	0.287 (7.30)	520±100gf	ACETAL	100,000
—	FSM9JL	0.146 (3.70)	0.287 (7.30)	100±50gf	ACETAL	100,000
1437565-8	FSM11J	0.173 (4.40)	0.315 (8.00)	160±50gf	ACETAL	100,000
—	FSM11JA	0.173 (4.40)	0.315 (8.00)	260±50gf	ACETAL	100,000
—	FSM11JAA	0.173 (4.40)	0.315 (8.00)	520±100gf	ACETAL	100,000
—	FSM11JL	0.173 (4.40)	0.315 (8.00)	100±50gf	ACETAL	100,000
1-1437565-0	FSM13J	0.370 (9.40)	0.512 (13.00)	160±50gf	ACETAL	100,000
1-1437565-1	FSM13JA	0.370 (9.40)	0.512 (13.00)	260±50gf	ACETAL	100,000
—	FSM13JAA	0.370 (9.40)	0.512 (13.00)	520±100gf	ACETAL	100,000
—	FSM13JL	0.370 (9.40)	0.512 (13.00)	100±50gf	ACETAL	100,000
—	FSM15J	0.527 (13.40)	0.669 (17.00)	160±50gf	ACETAL	100,000
147916-1	FSM15JA	0.527 (13.40)	0.669 (17.00)	260±50gf	ACETAL	100,000
—	FSM15JAA	0.527 (13.40)	0.669 (17.00)	520±100gf	ACETAL	100,000
—	FSM15JL	0.527 (13.40)	0.669 (17.00)	100±50gf	ACETAL	100,000
—	FSM17J	0.193 (4.90)	0.335 (8.51)	160±50gf	ACETAL	100,000
—	FSM17JA	0.193 (4.90)	0.335 (8.51)	260±50gf	ACETAL	100,000
—	FSM17JAA	0.193 (4.90)	0.335 (8.51)	520±100gf	ACETAL	100,000
—	FSM17JL	0.193 (4.90)	0.335 (8.51)	100±50gf	ACETAL	100,000
Without Ground Terminal						
2-1437565-0	FSM2J	0.028 (0.70)	0.169 (4.30)	160±50gf	PBT	100,000
2-1437565-1	FSM2JA	0.028 (0.70)	0.169 (4.30)	260±50gf	PBT	100,000
—	FSM2JAA	0.028 (0.70)	0.169 (4.30)	520±100gf	PBT	100,000
—	FSM2JL	0.028 (0.70)	0.169 (4.30)	100±50gf	PBT	100,000
2-1437565-4	FSM4J	0.055 (1.40)	0.196 (5.00)	160±50gf	PBT	100,000
3-1437565-6	FSM4JA	0.055 (1.40)	0.196 (5.00)	260±50gf	PBT	100,000
3-1437565-7	FSM4JAA	0.055 (1.40)	0.196 (5.00)	520±100gf	PBT	100,000
3-1437565-8	FSM4JL	0.055 (1.40)	0.196 (5.00)	100±50gf	PBT	100,000
4-1437565-5	FSM6J	0.134 (3.40)	0.276 (7.00)	160±50gf	ACETAL	100,000
4-1437565-6	FSM6JA	0.134 (3.40)	0.276 (7.00)	260±50gf	ACETAL	100,000
—	FSM6JAA	0.134 (3.40)	0.276 (7.00)	520±100gf	ACETAL	100,000
—	FSM6JL	0.134 (3.40)	0.276 (7.00)	100±50gf	ACETAL	100,000
5-1437565-2	FSM8J	0.232 (5.90)	0.374 (9.50)	160±50gf	PBT	100,000
5-1437565-3	FSM8JA	0.232 (5.90)	0.374 (9.50)	260±50gf	PBT	100,000
5-1437565-4	FSM8JAA	0.232 (5.90)	0.374 (9.50)	520±100gf	PBT	100,000
1571376-1	FSM8JL	0.232 (5.90)	0.374 (9.50)	100±50gf	PBT	100,000
1437565-7	FSM10J	0.146 (3.70)	0.287 (7.30)	160±50gf	ACETAL	100,000
—	FSM10JA	0.146 (3.70)	0.287 (7.30)	260±50gf	ACETAL	100,000
—	FSM10JAA	0.146 (3.70)	0.287 (7.30)	520±100gf	ACETAL	100,000
—	FSM10JL	0.146 (3.70)	0.287 (7.30)	100±50gf	ACETAL	100,000
1437565-9	FSM12J	0.173 (4.40)	0.315 (8.00)	160±50gf	ACETAL	100,000
—	FSM12JA	0.173 (4.40)	0.315 (8.00)	260±50gf	ACETAL	100,000
—	FSM12JAA	0.173 (4.40)	0.315 (8.00)	520±100gf	ACETAL	100,000
—	FSM12JL	0.173 (4.40)	0.315 (8.00)	100±50gf	ACETAL	100,000
1-1437565-2	FSM14J	0.370 (9.40)	0.512 (13.00)	160±50gf	ACETAL	100,000
—	FSM14JA	0.370 (9.40)	0.512 (13.00)	260±50gf	ACETAL	100,000
—	FSM14JAA	0.370 (9.40)	0.512 (13.00)	520±100gf	ACETAL	100,000
—	FSM14JL	0.370 (9.40)	0.512 (13.00)	100±50gf	ACETAL	100,000
1-1437565-3	FSM16J	0.527 (13.40)	0.669 (17.00)	160±50gf	ACETAL	100,000
—	FSM16JA	0.527 (13.40)	0.669 (17.00)	260±50gf	ACETAL	100,000
—	FSM16JAA	0.527 (13.40)	0.669 (17.00)	520±100gf	ACETAL	100,000
—	FSM16JL	0.527 (13.40)	0.669 (17.00)	100±50gf	ACETAL	100,000
1-1437565-4	FSM18J	0.193 (4.90)	0.335 (8.51)	160±50gf	ACETAL	100,000
—	FSM18JA	0.193 (4.90)	0.335 (8.51)	260±50gf	ACETAL	100,000
—	FSM18JAA	0.193 (4.90)	0.335 (8.51)	520±100gf	ACETAL	100,000
—	FSM18JL	0.193 (4.90)	0.335 (8.51)	100±50gf	ACETAL	100,000



Tactile Switches, .236 [6] x .236 [6], Radial Tape

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....Nylon
 Actuator ButtonPBT
 Cover.....Steel, tin plate
 TerminalsCopper alloy, silver clad plate

TYPICAL PERFORMANCE CHARACTERISTICS:

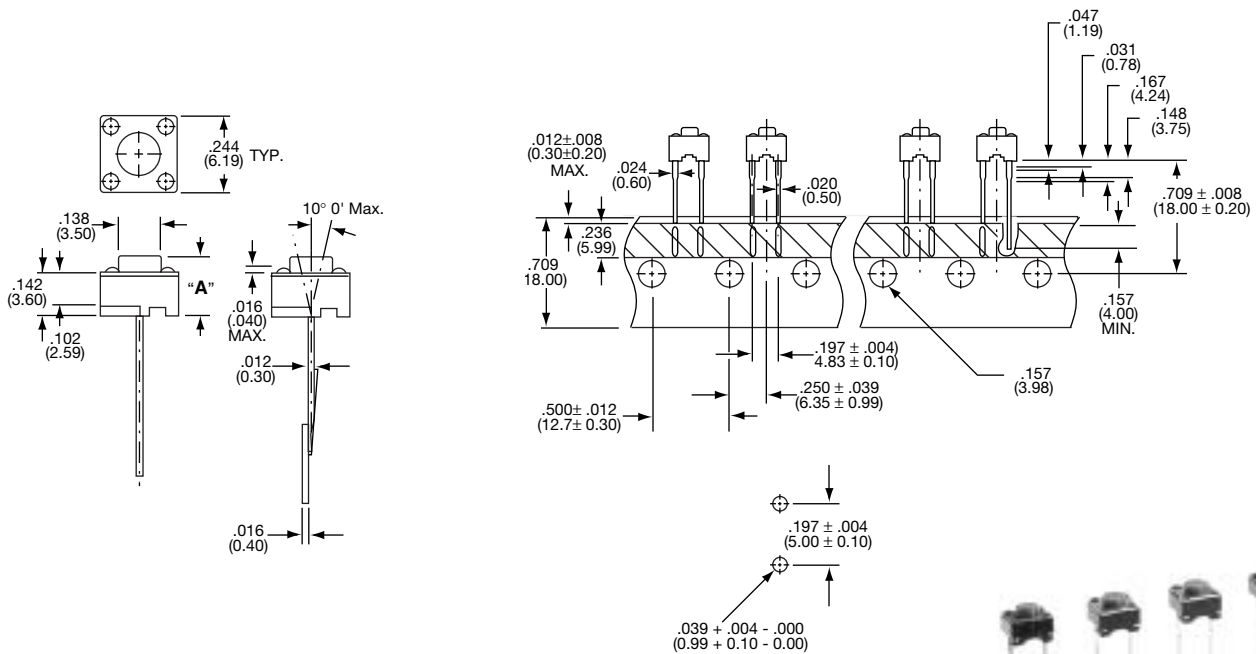
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......010" (.254)
 Life ExpectancyUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

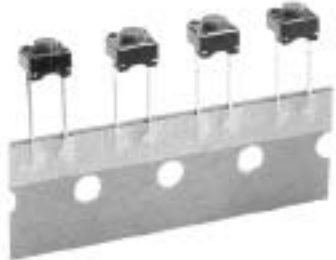
Operating Temperature..... -40°F to +221°F (-40°C to +105°C)
 Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
 Solder Heat ResistanceSee Page M3-4

E

FSMJRT Series



Tyco Electronics	Alcoswitch	Dimension A	Actuation Force
2-1437565-6	FSM2JRT	4.3 (.169)	160 +/-50 gm
2-1437565-2	FSM2JART	4.3 (.169)	260 +/-75 gm
4-1437565-0	FSM4JRT	5.0 (.197)	160 +/-50 gm
147997-1	FSM4JART	5.0 (.197)	260 +/-75 gm
4-1437565-8	FSM6JRT	7.0 (.276)	160 +/-50 gm
1571402-1	FSM6JART	7.0 (.276)	260 +/-75 gm
147694-1	FSM8JRT	9.5 (.374)	160 +/-50 gm
147871-1	FSM8JART	9.5 (.374)	260 +/-75 gm
1571010-1	FSM14JRT	13.0 (.512)	160 +/-50 gm



FSM4JRT

Tactile Switches, .236 [6] x .236 [6], Right Angle

MATERIAL SPECIFICATIONS:

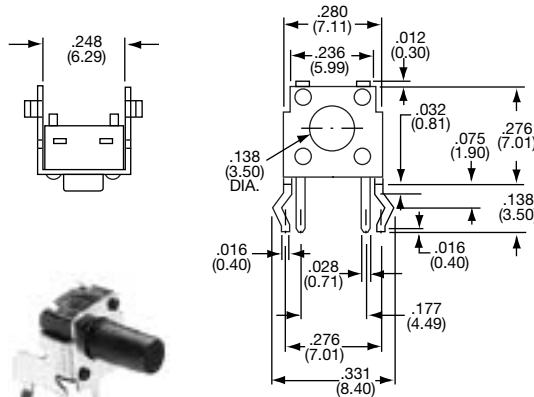
ContactsCopper alloy, silver clad plate
 Case.....PBT
 Actuator ButtonNylon/acetel
 FrameSteel, tin plate
 TerminalsCopper alloy, silver plate

TYPICAL PERFORMANCE CHARACTERISTICS:

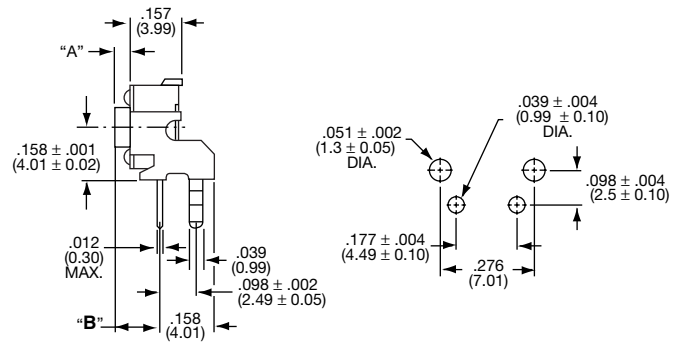
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......012" (0,3)
 Life ExpectancyUp to 100,000 Cycles
 Up to 50,000 Cycles 520 GF (AA option)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceSee Page M3-4



FSMRA7J



Type		
SPST	Off	(On)

(On) indicates momentary position.

Tyco Electronics	Alcoswitch	Dim. A	Dim B
8-1437565-4	FSMRA 1J	.022" (0,55)	.124" (3,15)
1571386-2	FSMRA 1JL	.022" (0,55)	.124" (3,15)
8-1437565-5	FSMRA 2J	.049" (1,25)	.152" (3,86)
1571386-1	FSMRA 2JL	.049" (1,25)	.152" (3,86)
8-1437565-8	FSMRA 2JA	.049" (1,25)	.152" (3,86)
8-1437565-9	FSMRA 2JH	.049" (1,25)	.152" (3,86)
9-1437565-0	FSMRA 3J	.128" (3,25)	.230" (5,84)
1571386-3	FSMRA 3JL	.128" (3,25)	.230" (5,84)
9-1437565-1	FSMRA 4J	.226" (5,74)	.329" (8,36)
1571819-1	FSMRA 4JA	.226" (5,74)	.329" (8,36)
1571386-4	FSMRA 4JL	.226" (5,74)	.329" (8,36)
9-1437565-2	FSMRA 5J	.140" (3,55)	.242" (6,15)
1571386-5	FSMRA 5JL	.140" (3,55)	.242" (6,15)
9-1437565-3	FSMRA 6J	.167" (4,25)	.269" (6,85)
1571386-6	FSMRA 6JL	.167" (4,25)	.269" (6,85)
9-1437565-5	FSMRA 7J	.364" (9,25)	.467" (11,86)
1571386-7	FSMRA 7JL	.364" (9,25)	.467" (11,86)
1571419-1	FSMRA 8J	.522" (13,26)	.624" (15,85)
1571386-8	FSMRA 8JL	.522" (13,26)	.624" (15,85)

PART NUMBERING SEQUENCE

Model	Actuator Length	Temperature	Actuation Force
FSMRA			
	J		±50g Tolerance
ACTUATOR LENGTH DIM "A"	SWITCH HEIGHT DIM "B"	BLANK = STD. TEMP. H = HIGH TEMP.	BLANK = 160 g (STD.) A = 260 g (OPT.) AA = 520 g (OPT.) L = 100 g (OPT.)
.022" (0,56)	.124" (3,15)		
.049" (1,24)	.152" (3,86)		
.128" (3,25)	.230" (5,84)		
.226" (5,74)	.329" (8,36)		
.140" (3,55)	.242" (6,15)		
.167" (4,24)	.269" (6,85)		
.364" (9,24)	.467" (11,86)		
.522" (13,26)	.624" (15,85)		

MATERIAL: CASE, PPS
ACTUATOR, PPS
(ACTUATOR OPTIONS 1 - 2)

CONSULT FACTORY FOR OTHER OPTIONS

Tactile Switches, .236 [6] x .236 [6], Square Button, Straight or Right Angle

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....Nylon
 Actuator ButtonPolyacetal Resin
 Cover.....Pet film
 TerminalsCopper alloy, silver plate
 Frame (R/A)Steel, tin plate

TYPICAL PERFORMANCE CHARACTERISTICS:

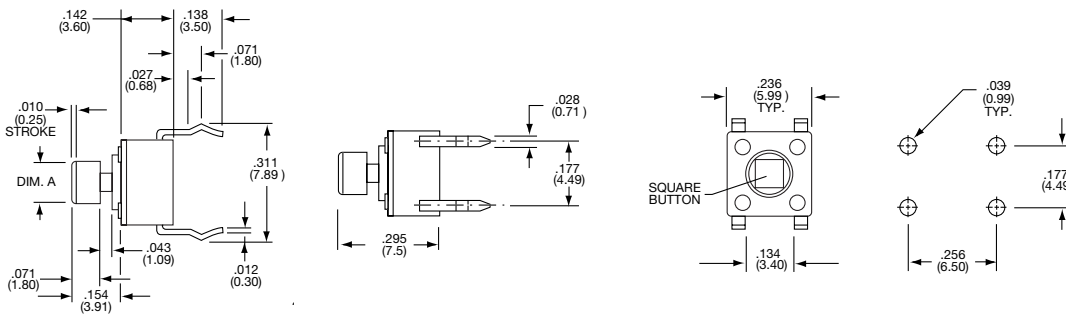
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms Max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation Force100 and 160 ±50 Grams
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 100,000 Cycles



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceSee Page M3-4

E
FSMCD & FSMRACD Series

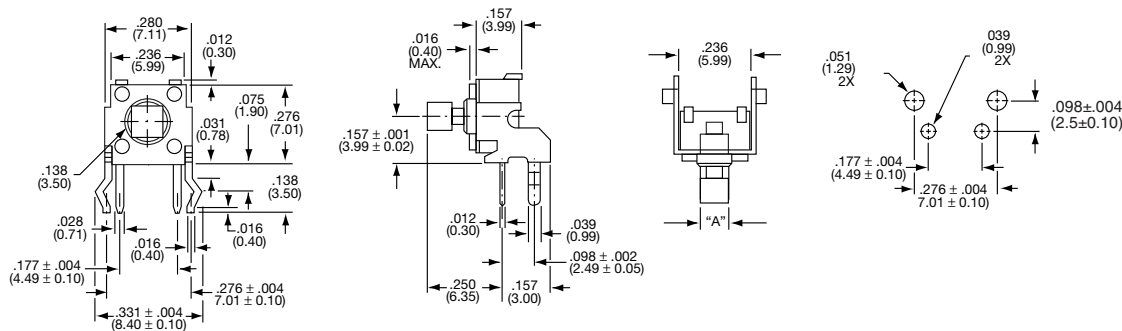
6 x 6 mm



Tyco Electronics	Alcoswitch	Dim. A	Type			Force
7-1437565-8	FSMCD	.095 (2,42)	SPST	Off	(On)	100±50g
7-1437565-9	FSMCDA	.110 (2,80)	SPST	Off	(On)	160±50g

(On) indicates momentary position.

6 x 6 mm



Tyco Electronics	Alcoswitch	Dim. A	Force
9-1437565-9	FSMRACD	.095 (2,42)	100±50g
1437566-1	FSMRACDA	.110 (2,80)	160±50g

E8

Tactile Switches, .138 [3.5] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

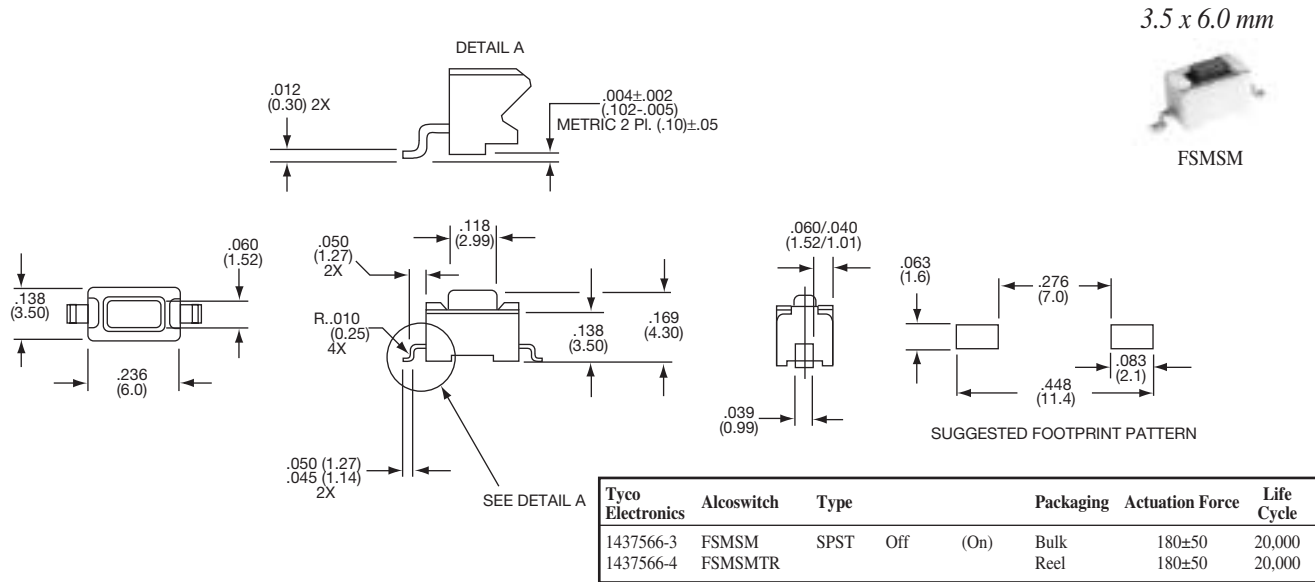
ContactsStainless steel, silver clad plate
 Case MaterialFSMSM: PPS
 Actuator MaterialFSMSM: Nylon
 FSMJM: PPS
 TerminalsCopper alloy, silver plate or tin plate
 Cover.....Stainless steel

TYPICAL PERFORMANCE CHARACTERISTICS:

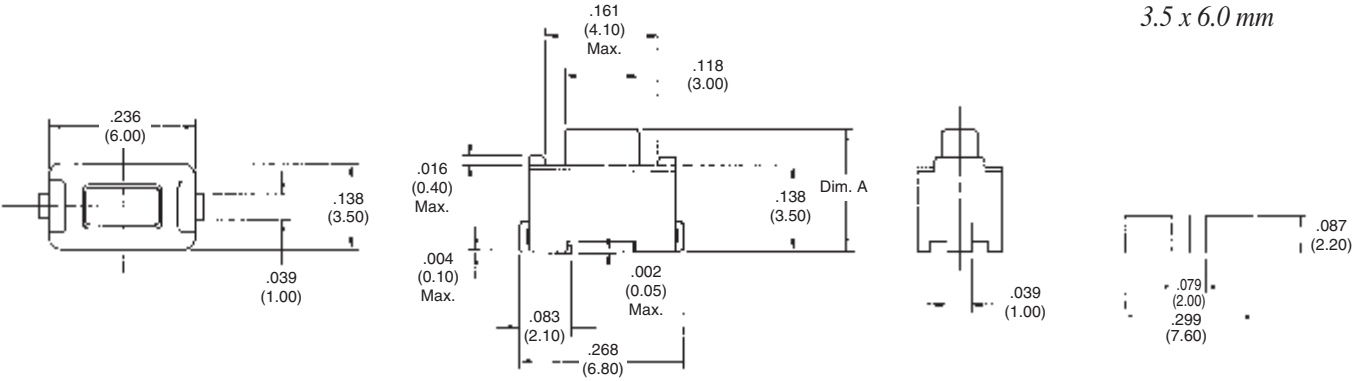
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuator Travel......010"(.254)
 Life Expectancy20,000-40,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to +85°C)
 Storage Temperature.....-40°F to +185°F (-40°C to +85°C)
 Solder Heat ResistanceFSMSM IR Soldering EIA-364-56,
 Procedure 5 Level 1, 215° C
 FSMJM IR Soldering per EIA 364-56
 Procedure 5, level 2, 464°F (240°C)



(On) indicates momentary position.



Tyco Electronics	Alcoswitch	Type	Dim. A	Actuation Force	Packaging	Life Cycle
147873-1	FSMJM5.0ATR	SPST	.197 (5.00)	180±50	Reel	40,000
147873-2	FSMJM4.3ATR	SPST	.169 (4.30)	180±50	Reel	40,000
147873-3	FSMJM3.5ATR	SPST	.138 (3.50)	180±50	Reel	40,000
147942-1	FSMJM4.3	SPST	.169 (4.30)	130±50	Bulk	40,000
147942-2	FSMJM4.3TR	SPST	.169 (4.30)	130±50	Reel	40,000

E
FSMSM/JM Series

Tactile Switches, .236 [6] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver plate
 Case.....PPS
 Actuator ButtonPPS
 Cover.....Steel, tin plate
 TerminalsCopper alloy, silver plate

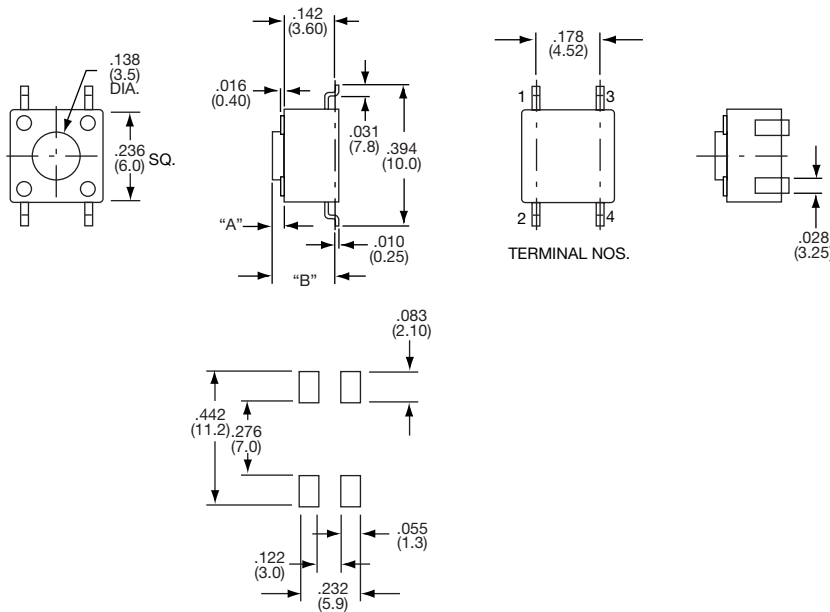
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to + 85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceIR Soldering EIA-364-56
 Procedure 5 Level 3, 500°F (260°C)

6 x 6 mm



E
FSMJ SMA Series

Bulk Pack Part Number		Tape & Reel Part Number		Actuator Length	Switch Height	Actuation Force
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Dimension A	Dimension B	
2-1437565-7	FSM2JSMA	3-1437565-0	FSM2JSMATR	.028 (0.70)	.169 (4.30)	160 ± 50 grams
4-1437565-1	FSM4JSMA	4-1437565-2	FSM4JSMATR	.055 (1.40)	.196 (5.00)	160 ± 50 grams
4-1437565-9	FSM6JSMA	5-1437565-0	FSM6JSMATR	.134 (3.40)	.276 (7.00)	160 ± 50 grams
2-1437565-8	FSM2JSMAA	2-1437565-9	FSM2JSMAATR	.028 (0.70)	.169 (4.30)	260 ± 50 grams
1571563-1	FSM4JSML	1571563-2	FSM4JSMLTR	.055 (1.40)	.196 (5.00)	100 ± 50 grams
1571563-3	FSM4JSMAA	1571563-4	FSM4JSMAATR	.055 (1.40)	.196 (5.00)	260 ± 50 grams
—	FSM6JSMAA	—	FSM6JSMAATR	.134 (3.40)	.276 (7.00)	260 ± 50 grams
3-1437566-8	FSM8JSMA	—	FSM8JSMATR	.232 (5.90)	.374 (9.50)	260 ± 50 grams
1571527-1	FSM2JSML	1571527-2	FSM2JSMLTR	.028 (0.70)	.169 (4.30)	100 ± 50 grams

Low Profile Series FSMCT Tactile Switches, .196 [5.0] x .196 [5.0], Surface Mount

MATERIAL SPECIFICATIONS:

CoverNickel Silver
Stem/ActuatorBrass-"J" Lead
Brass nickel plate-gullwing

Contacts:

MovingStainless Steel, Silver Clad-Plate
Fixed/TerminalCopper Alloy, Silver-Plate
CaseNylon, UL94V-0

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating20mA @ 15VDC
Initial Contact Resistance100MilliOhms Max
Insulation Resistance100Megaohms @ 100VDC Min.
Dielectric Strength500 VAC for 1 minute
Actuation Travel0.25 +0.1/-0.2
Life ExpectancyUp to 500,000 and 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
Storage Temperature-22 to +185°F (-30 to +85°C)
Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
SolderabilityPer EIA-364-52, Class 2, Category 1, Temp. 473°F (245°C) max., Time 2.5 seconds max., 95% minimum coverage.

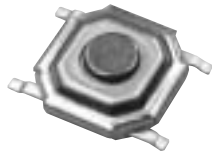
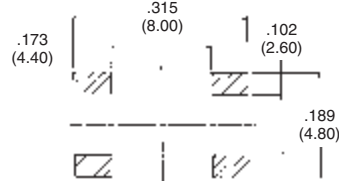
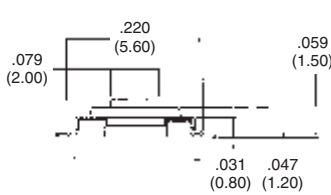
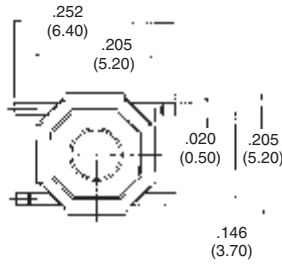


Table with 5 columns: Tyco Electronics, Alcoswitch, Type, Force, Life Cycle. Rows include part numbers 8-1437565-0 and 8-1437565-1.

"J" lead option in development. Contact factory for additional information.

FSMCT/FSMCTJA Series

Low Profile, 6 x 6 SMT J-Lead, Extended Life

MATERIAL SPECIFICATIONS:

CoverStainless Steel
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapePTFE

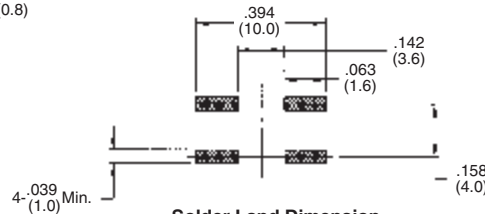
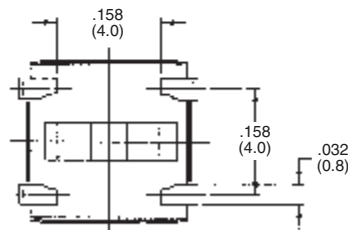
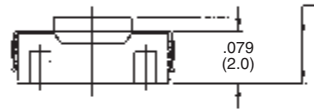
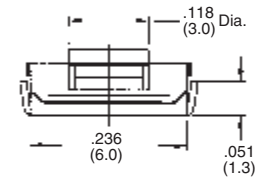
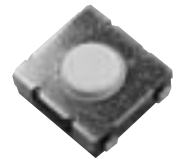
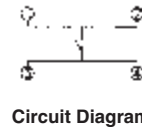
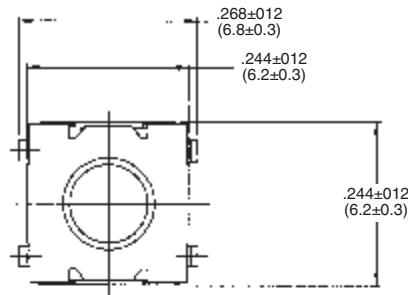
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel.....0.008 +/-0.004 (.2 +/- .10)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C), 95% minimum coverage.

E
Extended Life Series



Tyco Electronics	Dim L	Force	Life	Packaging
1571625-1	.098 (2.5)	50gf	2,000,000	Bulk
1571625-2	.098 (2.5)	50gf	2,000,000	T&R
1571625-3	.098 (2.5)	100gf	1,000,000	Bulk
1571625-4	.098 (2.5)	100gf	1,000,000	T&R
1571625-5	.098 (2.5)	160gf	1,000,000	Bulk
1571625-6	.098 (2.5)	160gf	1,000,000	T&R
1571625-7	.098 (2.5)	260gf	100,000	Bulk
1571625-8	.098 (2.5)	260gf	100,000	T&R

Low Profile, 6 x 6 SMT, Gull Wing, Extended Life

MATERIAL SPECIFICATIONS:

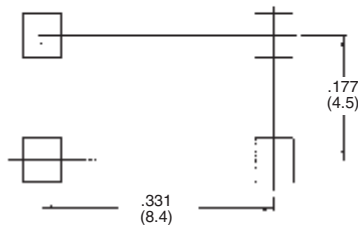
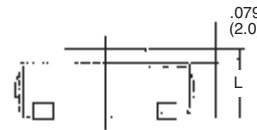
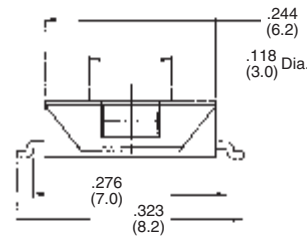
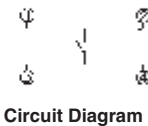
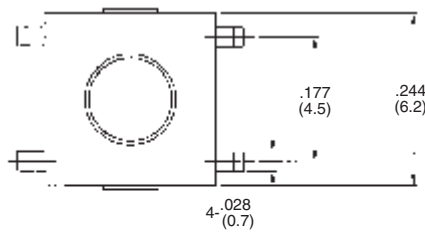
CoverCopper Alloy, Tin Lead Plate
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapePTFE

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel0.010 +/- .004 (.25 +/- .10)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.



PCB Mounting Solder Land Dimension

Tyco Electronics	Dim L	Force	Life	Packaging
1571626-1	.098 (2.5)	50gf	1,000,000	Bulk
1571626-2	.098 (2.5)	50gf	1,000,000	T&R
1571626-3	.098 (2.5)	100gf	1,000,000	Bulk
1571626-4	.098 (2.5)	100gf	1,000,000	T&R
1571626-5	.098 (2.5)	160gf	1,000,000	Bulk
1571626-6	.098 (2.5)	160gf	1,000,000	T&R
1571626-7	.079 (2.0)	160gf	1,000,000	Bulk
1571626-8	.079 (2.0)	160gf	1,000,000	T&R
1571626-9	.098 (2.5)	260gf	100,000	Bulk
1-1571626-0	.098 (2.5)	260gf	100,000	T&R

Low Profile, 6 x 6 SMT, Gull Wing w/ESD Terminal, Extended Life

MATERIAL SPECIFICATIONS:

CoverCopper Alloy, Tin Lead Plate
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapePTFE

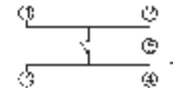
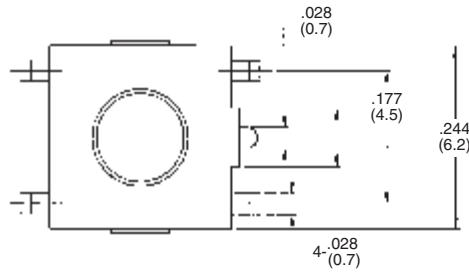
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100Milliohms Max
 Insulation Resistance100Megaohms @ 100V DC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel.....0.010 +/- .004 (.25 +/- .10)

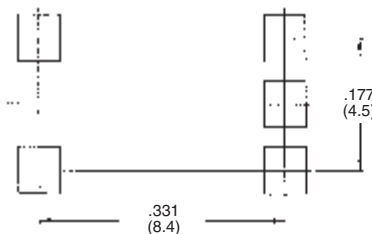
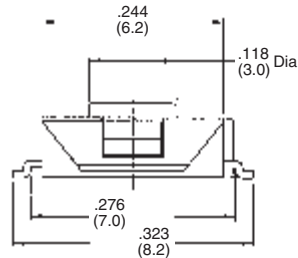
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.

E
Extended Life Series



Circuit Diagram



PCB Mounting Solder Land Dimension

Tyco Electronics	Dim L	Force	Life	Packaging
1571636-1	.098 (2.5)	50gf	1,000,000	Bulk
1571636-2	.098 (2.5)	50gf	1,000,000	T&R
1571636-3	.098 (2.5)	100gf	1,000,000	Bulk
1571636-4	.098 (2.5)	100gf	1,000,000	T&R
1571636-5	.098 (2.5)	160gf	1,000,000	Bulk
1571636-6	.098 (2.5)	160gf	1,000,000	T&R
1571636-7	.079 (2.0)	160gf	1,000,000	Bulk
1571636-8	.079 (2.0)	160gf	1,000,000	T&R
1571636-9	.098 (2.5)	260gf	100,000	Bulk
1-1571636-0	.098 (2.5)	260gf	100,000	T&R

Tactile Switches, .236 [6] x .236 [6], Low Profile, Surface Mount

MATERIAL SPECIFICATIONS:

ContactsCopper Alloy, silver clad plated
 Case MaterialPPS
 StemPPS
 Cover.....Steel, tin-plate
 TerminalsCopper alloy, silver plated

TYPICAL PERFORMANCE CHARACTERISTICS:

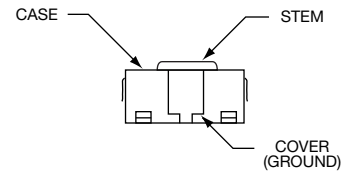
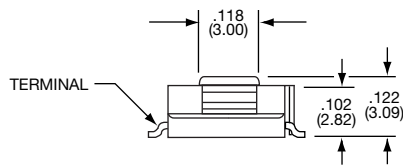
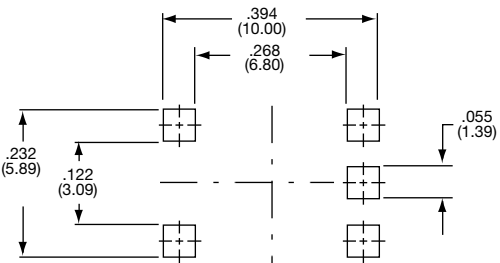
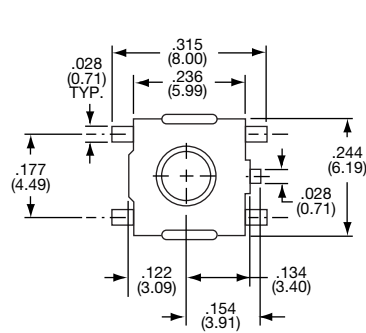
Contact Rating50mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC, 1 minute
 Actuation ForceSee Below.
 Life ExpectancyUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

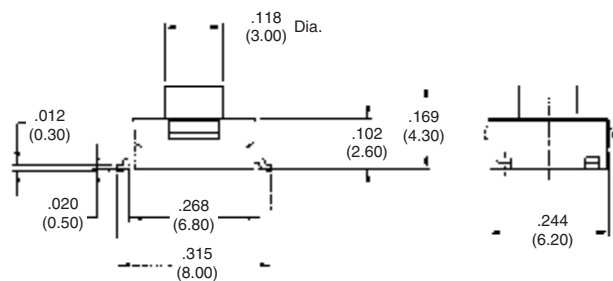
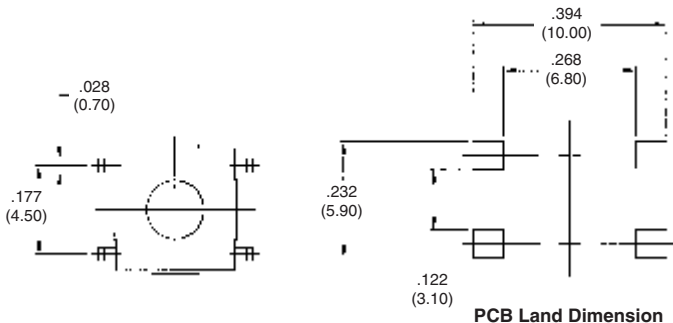
Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceIR Soldering EIA-364-56
 Procedure 5 Level 2, 464°F (240°C)



FSM1LP



FSM4LP



Tyco Electronics	Alcoswitch	Force	Actuator Packaging
1-1437565-6	FSM1LP	160	Bulk
1-1437565-7	FSM1LPA	260	Bulk
1-1437565-9	FSM1LPTR	160	Tape & Reel
1-1437565-8	FSM1LPATR	260	Tape & Reel
1571621-1	FSM4LP	260	Bulk
4-1437565-3	FSM4LPTR	260	Tape & Reel

E
FSM1LP Series

Tactile Switches, .472 [12] x .472 [12], Flush or Extended Actuators

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....PBT
 Actuator ButtonPolyacetal Resin
 Cover.....PET film
 TerminalsCopper alloy, silver plate
 Frame (R/A)Nylon

TYPICAL PERFORMANCE CHARACTERISTICS:

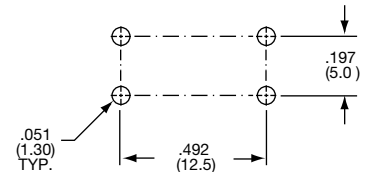
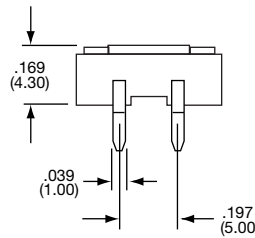
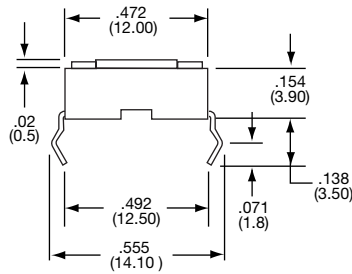
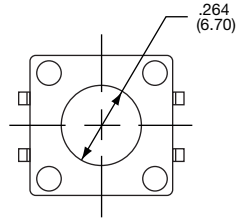
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee below
 Actuator Travel.....0.012"(0.3)
 Life ExpectancyUp to 100,000 cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceSee Page M3-4



FSM100

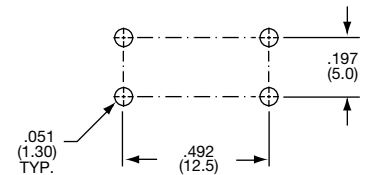
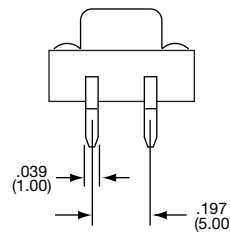
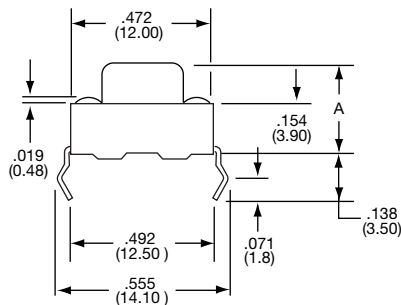
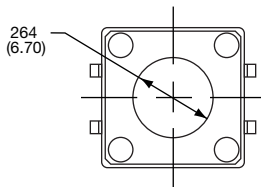


Tyco Electronics	Alcoswitch	Type			Force
1437565-2	FSM100	SPST	Off	(On)	160±50gf
1571139-1	FSM100A	SPST	Off	(On)	260±50gf

(On) indicates momentary position.



FSM101

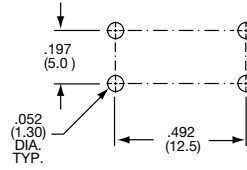
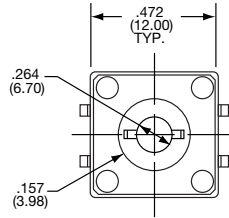
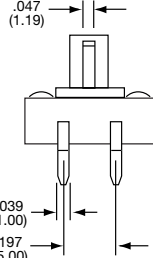
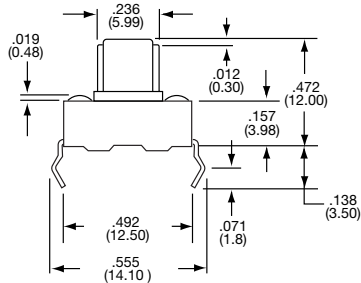


Tyco Electronics	Alcoswitch	Type			Force	Dim A
1437565-3	FSM101	SPST	Off	(On)	160±50gf	.295 [7.5mm]
1571140-1	FSM201A	SPST	Off	(On)	260±50gf	.335 [8.5mm]

(On) indicates momentary position.

E
FSM100-104 Series

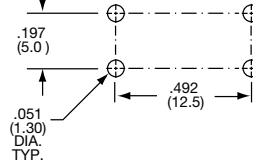
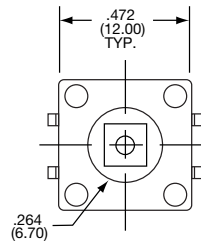
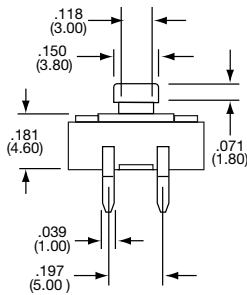
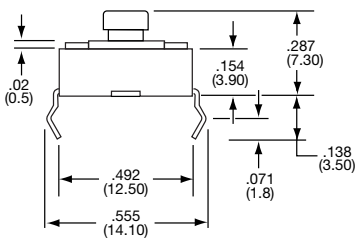
Tactile Switches, .472 [12] x .472 [12], Vertical or Right Angle



FSM102

Tyco Electronics	Alcoswitch	Type			Force
1437565-4	FSM102	SPST	Off	(On)	160±50gf
1571061-1	FSM102A	SPST	Off	(On)	260±50gf

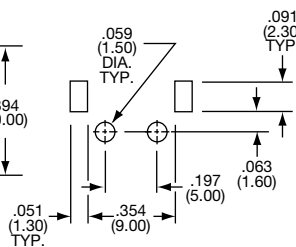
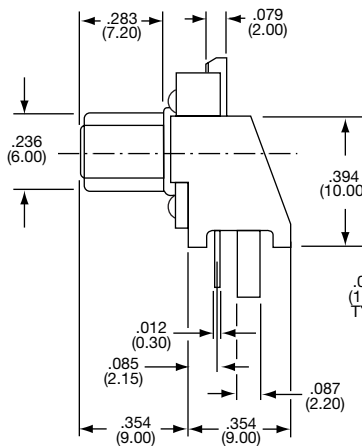
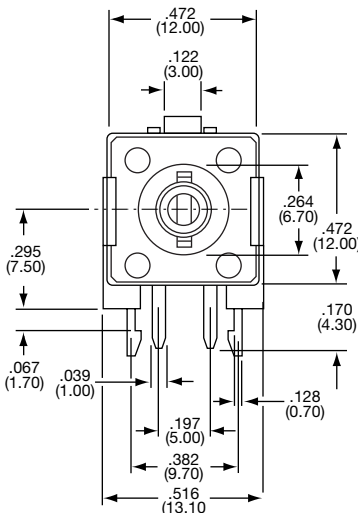
(On) indicates momentary position.



FSM103

Tyco Electronics	Alcoswitch	Type			Force
1437565-5	FSM103	SPST	Off	(On)	160±50gf

(On) indicates momentary position.



Tyco Electronics	Alcoswitch	Type			Force
1437565-6	FSM104	SPST	Off	(On)	160±50gf

(On) indicates momentary position.



Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Projected Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

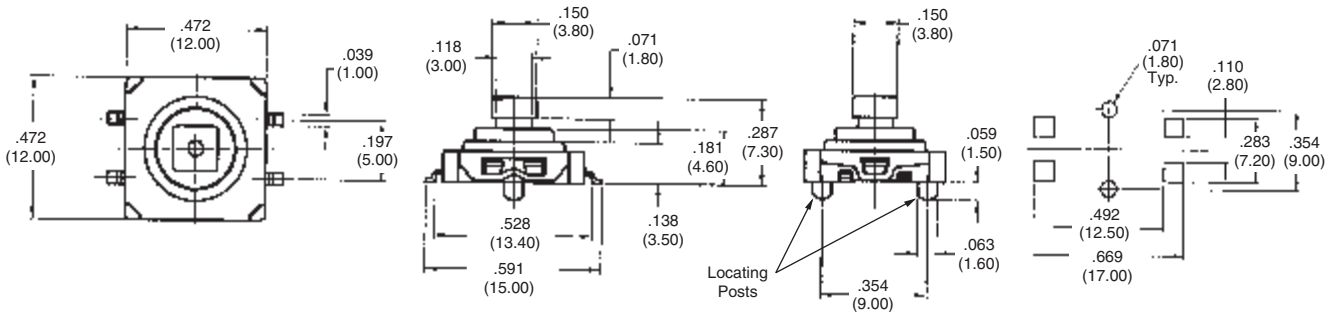
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +70°C)
 Storage Temperature-4 to +185°F (-20 to +70°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571217-1	No	Bulk	.287 (7.30)	160±70gf
1571217-2	Yes	Bulk	.287 (7.30)	160±70gf
1571217-3	No	T&R	.287 (7.30)	160±70gf
1571217-4	Yes	T&R	.287 (7.30)	160±70gf

Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Flush, Actuator

MATERIAL SPECIFICATIONS:

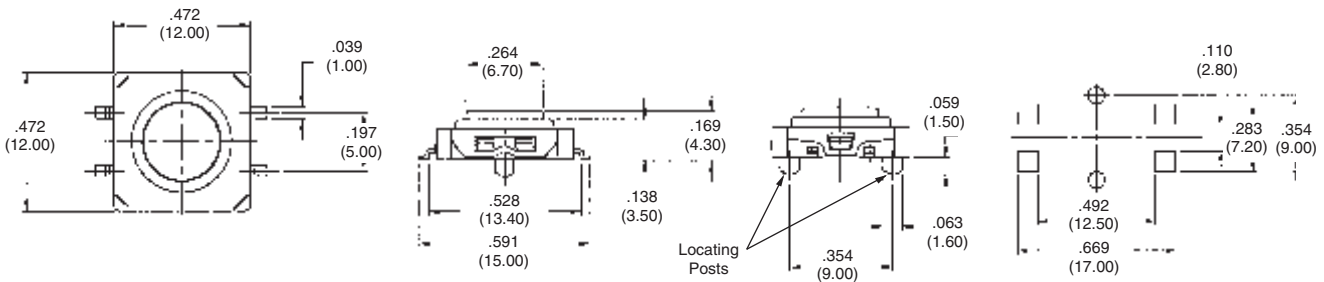
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/--.20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571218-1	No	Bulk	.169 (4.30)	160±70gf
1571218-2	Yes	Bulk	.169 (4.30)	160±70gf
1571218-3	No	T&R	.169 (4.30)	160±70gf
1571218-4	Yes	T&R	.169 (4.30)	160±70gf

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Projected Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

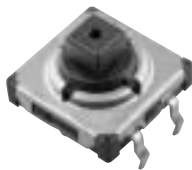
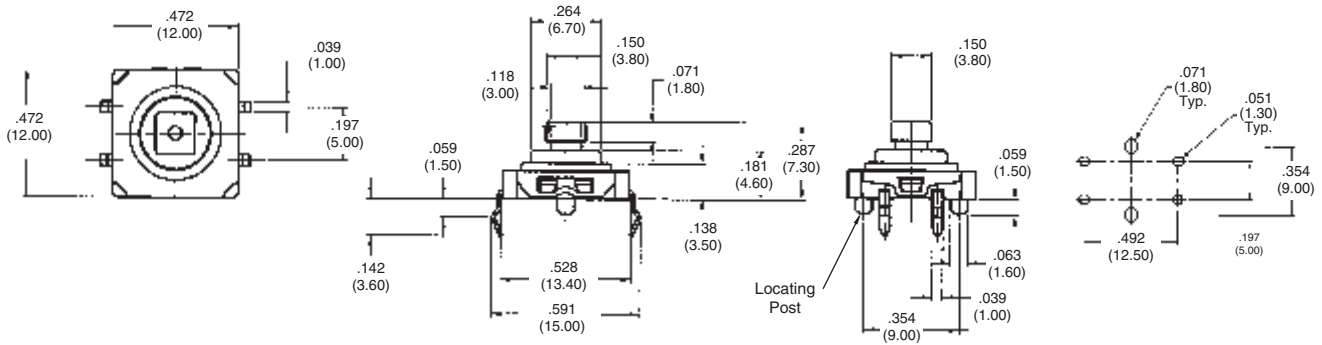
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/- .20)
 Life1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571219-1	No	Bulk	.287 (7.30)	160±70gf
1571219-2	Yes	Bulk	.287 (7.30)	160±70gf

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Flush Actuator

MATERIAL SPECIFICATIONS:

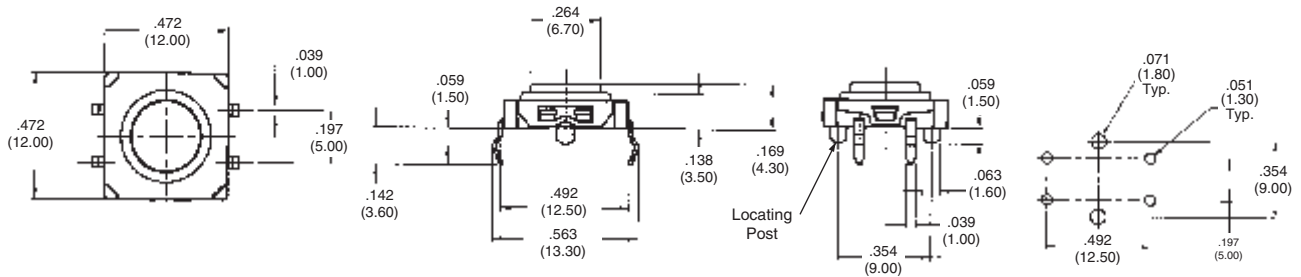
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/- .20)
 Life1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Locating Post	Packaging	Actuator Height	Force
1571220-1	No	Bulk	.169 (4.30)	160±70gf
1571220-2	Yes	Bulk	.169 (4.30)	160±70gf

E
Sealed Tactile Switches

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Extended Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver

TYPICAL PERFORMANCE CHARACTERISTICS:

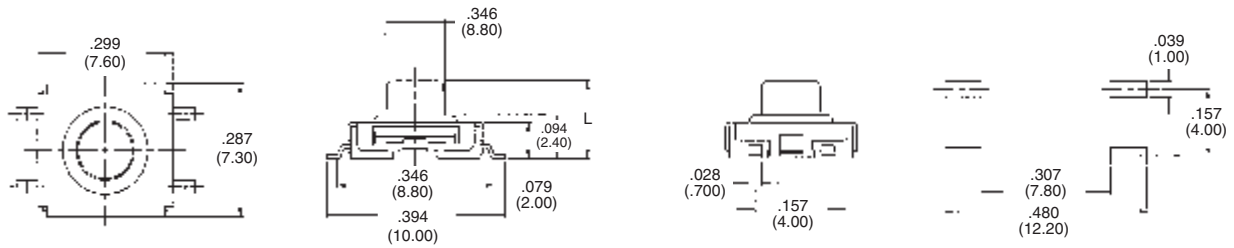
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



Tyco Electronics	Packaging	L	Force
1571294-1	Bulk	.169 (4.30)	160±50gf
1571294-2	T&R	.169 (4.30)	160±50gf
1571294-3	Bulk	.197 (5.00)	160±50gf
1571294-4	T&R	.197 (5.00)	160±50gf

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Flush Actuator

MATERIAL SPECIFICATIONS:

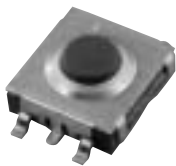
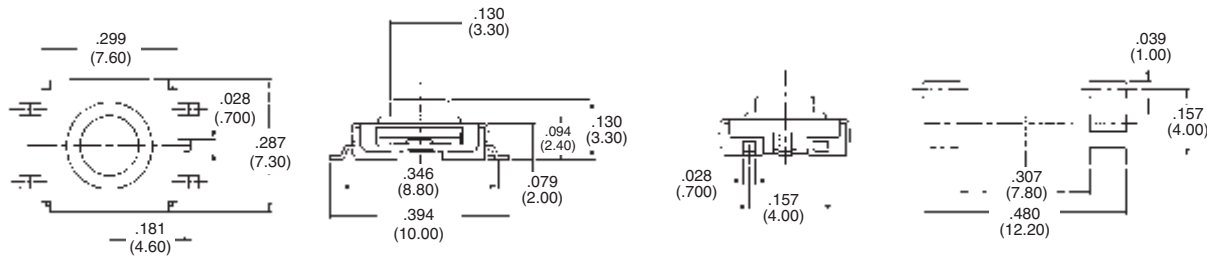
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Packaging	Actuator Height	Force
1571296-1	Bulk	.130 (3.30)	160±50gf
1571296-2	T&R	.130 (3.30)	160±50gf

E
Sealed Tactile Switches

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Thru-Hole, Extended Actuator

MATERIAL SPECIFICATIONS:

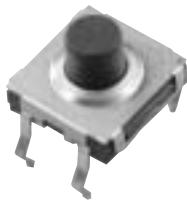
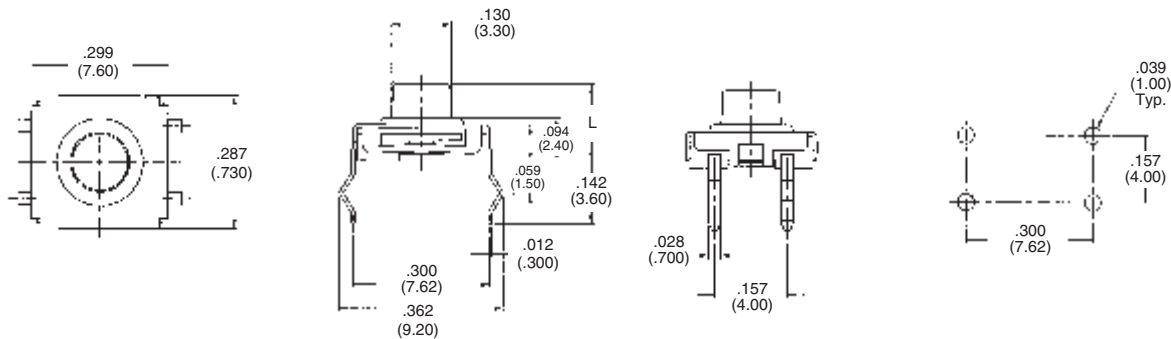
CaseThermoplastic, UL94V-0, Black
 ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel0.014 +/-0.008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond.B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Packaging	L	Force
1571295-1	Bulk	.169 (4.30)	160±50gf
1571295-2	Bulk	.197 (5.00)	160±50gf

E

Sealed Tactile Switches

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Surface Mount

MATERIAL SPECIFICATIONS:

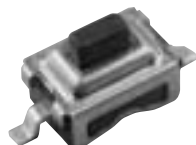
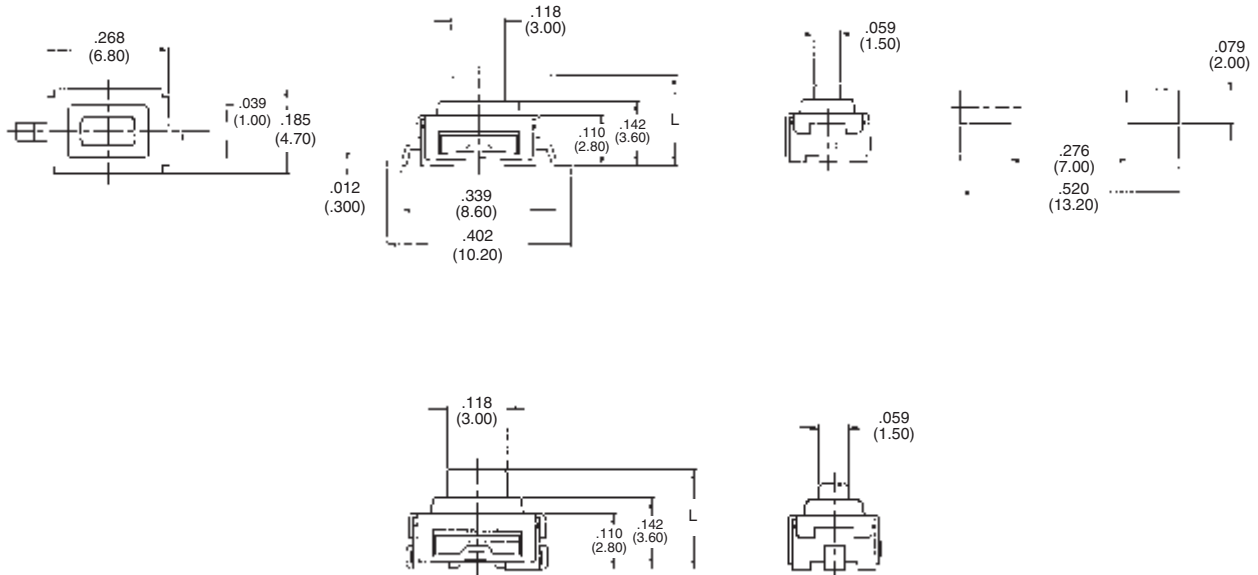
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/- .20)
 LifeUp to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Packaging	L	Operating Force	Lead Style
1571298-1	Bulk	.197 (5.00)	130 ± 50gf	Gull Wing
1571298-2	T&R	.197 (5.00)	130 ± 50gf	Gull Wing
1571299-1	Bulk	.169 (4.30)	130 ± 50gf	J Lead
1571299-2	T&R	.169 (4.30)	130 ± 50gf	J Lead
1571299-3	Bulk	.197 (5.00)	130 ± 50gf	J Lead
1571299-4	T&R	.197 (5.00)	130 ± 50gf	J Lead

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Thru-Hole

MATERIAL SPECIFICATIONS:

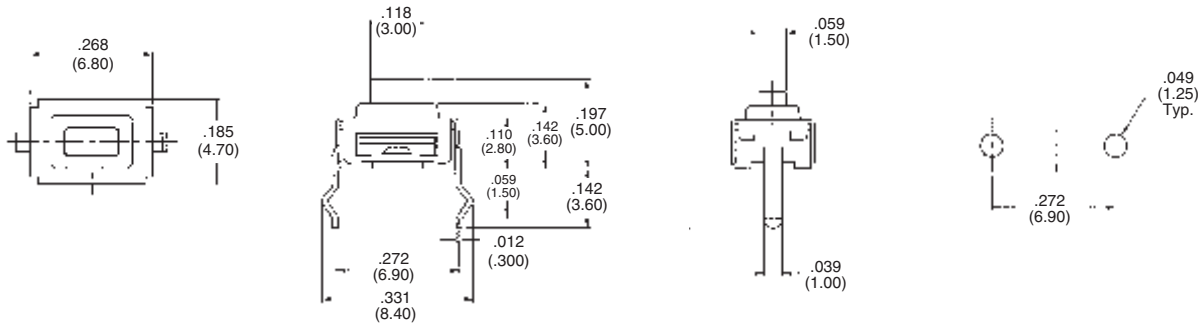
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Packaging	Actuator Height	Operating Force
1571297-1	Bulk	.197 (5.00)	130 ± 50gf

E

Sealed Tactile Switches

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

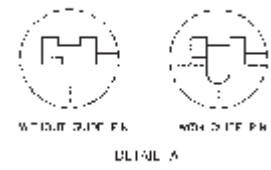
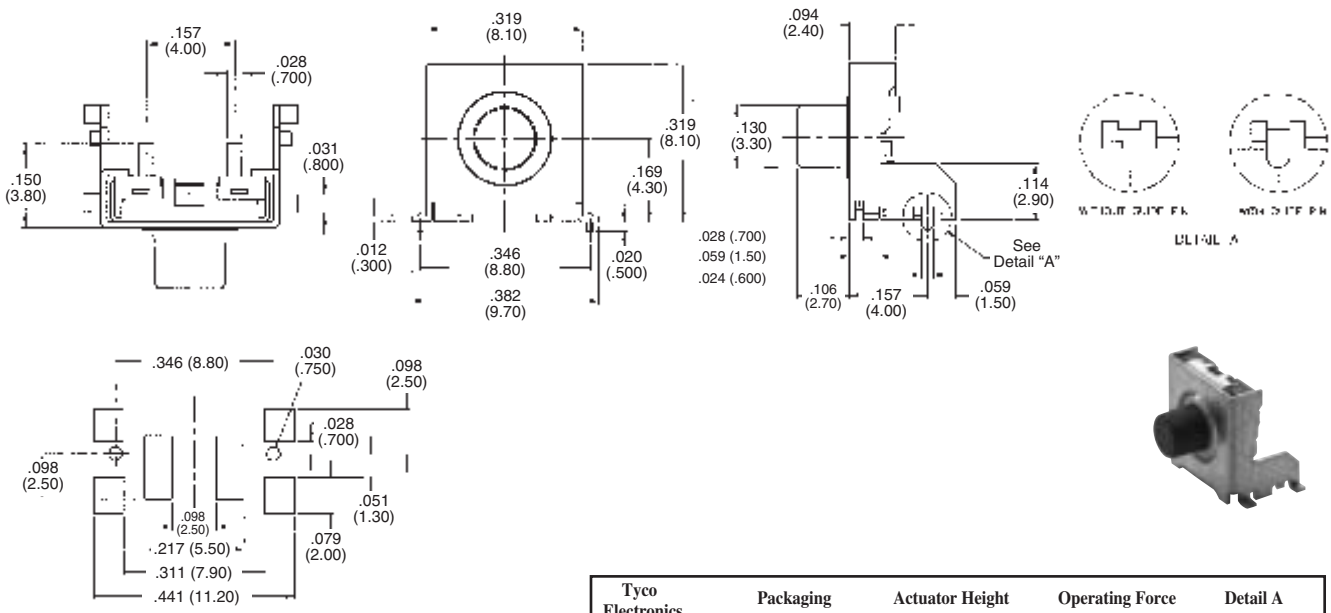
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4° to +185°F (-20°to +85°C)
 Storage Temperature-4° to +185°F (-20°to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



Tyco Electronics	Packaging	Actuator Height	Operating Force	Detail A
1571300-1	Bulk	.106 (2.70)	130 ± 50gf	Without Pin
1571300-2	Bulk	.106 (2.70)	130 ± 50gf	With Pin

E
Sealed Tactile Switches

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver

TYPICAL PERFORMANCE CHARACTERISTICS:

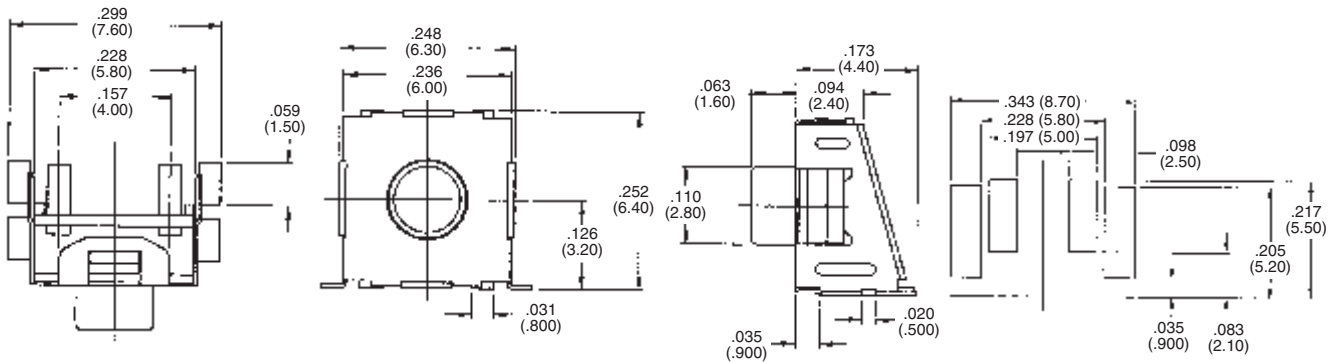
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4° to +185°F (-20°to +85°C)
 Storage Temperature-4° to +185°F (-20°to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



Tyco Electronics	Packaging	Actuator Height	Operating Force
1571407-1	Bulk	.063 (1.60)	260 ± 100gf
1571407-2	T&R	.063 (1.60)	260 ± 100gf

Tactile Switches, Side Actuated, Surface Mount

MATERIAL SPECIFICATIONS:

CaseNylon 4/6, UL94V-0, Black
 Stem/ActuatorNylon 4/6, UL94V-0, Black
 CoverStainless Steel
 Contact PlateStainless Steel, Silver Clad Over
 Nickel Plate
 TerminalCopper Alloy, Silver Over Nickel Plate
 Masking TapePTFE

TYPICAL PERFORMANCE CHARACTERISTICS:

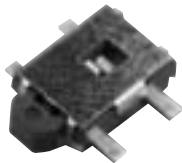
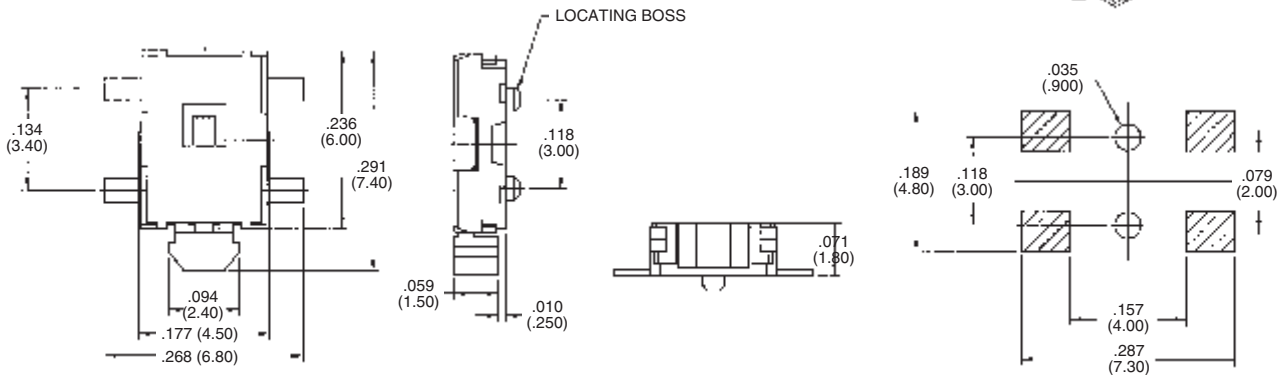
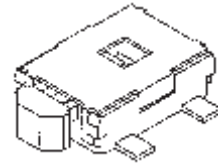
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Force160 (+70/-40gm)
 Travel30 (+.1/-2mm)
 LifeUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4° to +185°F (-20° to +85°C)
 Storage Temperature-22° to +185°F (-30° to +85°C)
 Resistance to Solder HeatPer EIA-364-56A, procedure 4 and 5,
 Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1,
 Temp. 473°F (245°C) max., time 2.5 sec.
 max., 95% min. coverage.



Side Actuated Tactile Switches



Tyco Electronics	Feature	Packaging
1571262-1	W/O Boss	Bulk
1571262-2	W/O Boss	T&R
1571262-3	with Boss	Bulk
1571262-4	with Boss	T&R

Multi-Directional Actuation

MATERIAL SPECIFICATIONS:

ContactCopper alloy - silver clad/nickel
 Case MaterialNylon - UL 94-HB, Black
 Actuator MaterialNylon - UL 94-HB, Black
 Terminals/Fixed ContactCopper alloy - plate silver clad/nickel

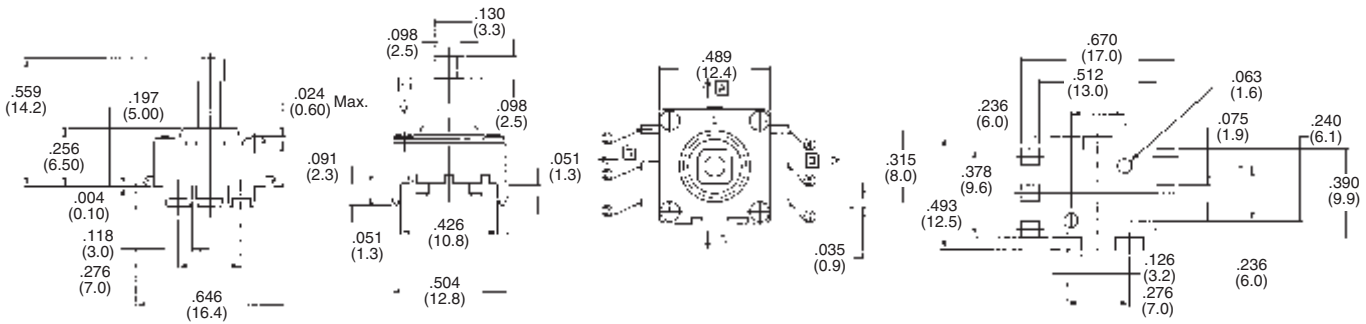
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature-13° to 158°F (-25° to +70°C)
 Storage Temperature-40° to 185°F (-40° to +85°C)
 Solder Heat Resistance.....Per EIA-364-56A, Procedure 4 and 5, Level 3
 SolderabilityPer EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating20mA @15VDC
 Initial Contact Resistance.....100 Milliohms max.
 Insulation Resistance100 Megohm min.
 Dielectric Strength100 VAC for 1 min.
 Life ExpectancyUp to 50,000 Cycles
 Actuation Force500±150 gf (center push),
 200±100 gf (4-directional)
 Actuation Travel.....0.039 (1.0) ±0.012 (.3) (4-directional),
 0.315 (8.0) ±2° (4-directional)

E Multi-Directional Switches



Tyco Electronics	Dimension L
1571514-1	.559 (14.2)
1571514-2	.480 (12.2)
1571514-3	.413 (10.5)

MATERIAL SPECIFICATIONS:

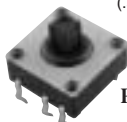
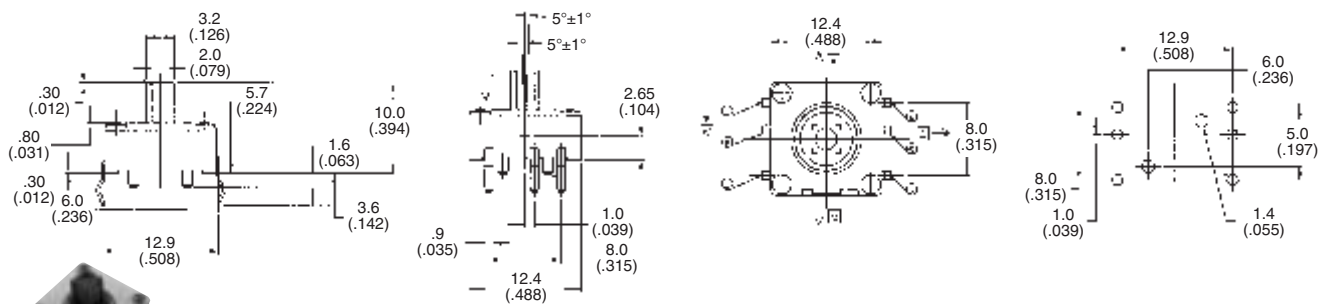
Contacts.....Stainless steel, plate silver clad/nickel
 Case MaterialNylon - UL 94-HB, Black
 Actuator MaterialPBT, UL 94-HB
 Terminals/Fixed ContactsCopper alloy - plate silver/nickel

Environmental Specifications

Operating Temperature-13° to 158°F (-25° to +70°C)
 Storage Temperature.....-40° to 185°F (-40° to +85°C)
 Solder Heat ResistancePer EIA-364-56A, Procedure 3, Condition B
 SolderabilityPer EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating20mA @15VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohm min.
 Dielectric Strength100 VAC for 1 min.
 Life ExpectancyUp to 50,000 Cycles
 Actuation Force350±100 gf (center push),
 200±70/-50 gf (4-directional)
 Actuation Travel.....0.010 (.25) ±0.008 (.2) (center push),
 0.197 (5.0) ±1° (4-directional)



Part Number 1571515-1

E30