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

MATERIAL SPECIFICATIONS:

Contacts .....Stainless/Silver clad plate
Case Material .....Nylon
Actuator Material .....PBT
Terminals/Fixed Contacts.....Copper alloy, Silver/Nickel

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 Resistance.....See Page M3-4

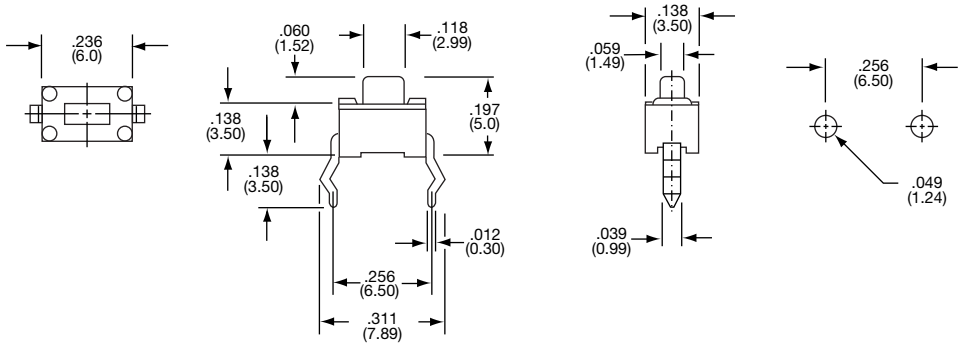
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....130±50 Grams
Actuator Travel.....010"(.254)
Life Expectancy .....Up to 20,000 Cycles

3.5 x 6mm



FSM

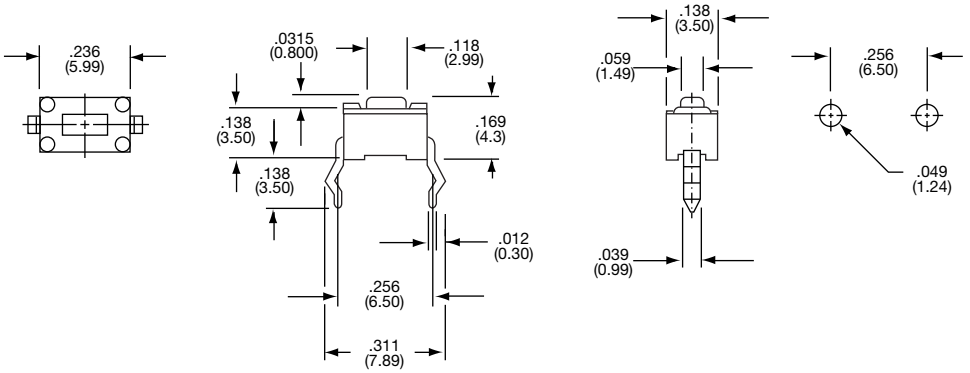


Tyco Electronics	Alcoswitch	Type		
1437565-1	FSM	SPST	Off	(On)
			(On) indicates momentary position.	

3.5 x 6mm



FSMC



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

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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver plate
Case.....Polyamide
Actuator Button .....Polyacetal Resin
Frame .....Steel, tin plate
Terminals .....Copper alloy, silver plate

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 Resistance .....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC
Actuation Force .....See page E5
Actuator Travel..... .012" (0,3)
Electrostatic Discharge
w/ESD Ground Terminal .....5Kv w/no discharge
Life Expectancy .....Up to 100,000 Cycles

PART NUMBERING SEQUENCE

Model	Actuator Length		Temp.	Actuator Force
FSM	☐	J	☐	☐
	Pg. E5		BLANK= STD. H= HIGH TEMP. ACTUATOR OPT. 1-8 ONLY	BLANK= 160g STD. A = 260 g AA = 520 g L = 100 g

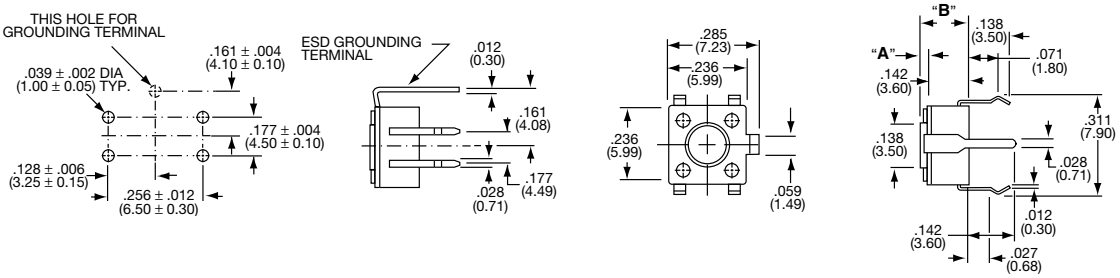
E

FSMJ Series

6 x 6 mm



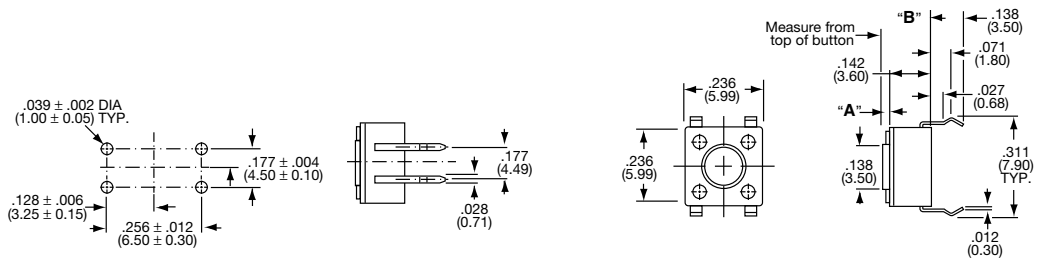
FSM1J
WITH
ESD
TERMINAL



6 x 6 mm



FSM2J
WITHOUT
ESD
TERMINAL



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Issued 9-04

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Japan: 81-44-844-8013
UK: 44-141-810-8967

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

TYCO Electronics Part Number	ALCO Part Number	DIMENSIONS A	DIMENSIONS B	Actuation Force	Actuator Material	Life Cycles
With Ground Terminal						
1-1437565-5	FSM1J	0.028 (0.70)	0.169 (4.30)	160±50gf	PBT	100,000
—	FSM1JA	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
2-1437565-4	FSM2JL	0.028 (0.70)	0.169 (4.30)	100±50gf	PBT	100,000
3-1437565-6	FSM4J	0.055 (1.40)	0.196 (5.00)	160±50gf	PBT	100,000
3-1437565-7	FSM4JA	0.055 (1.40)	0.196 (5.00)	260±50gf	PBT	100,000
3-1437565-8	FSM4JAA	0.055 (1.40)	0.196 (5.00)	520±100gf	PBT	100,000
—	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

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UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

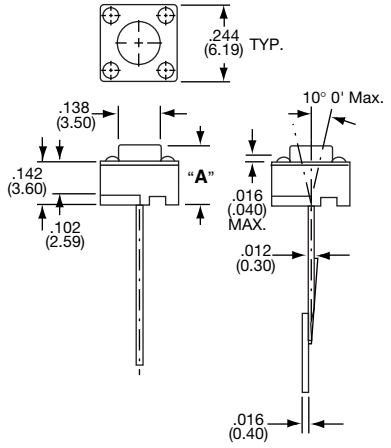
Contacts .....Copper alloy, silver clad plate
Case.....Nylon
Actuator Button .....PBT
Cover.....Steel, tin plate
Terminals .....Copper alloy, silver clad plate

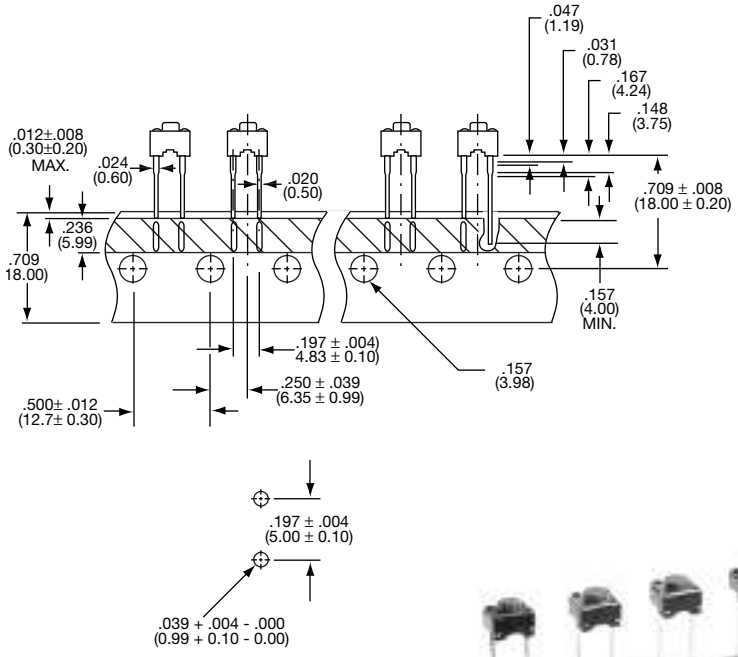
ENVIRONMENTAL SPECIFICATIONS

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 Resistance .....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .010" (,254)
Life Expectancy .....Up to 100,000 Cycles







FSM4JRT

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

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Japan: 81-44-844-8013
UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

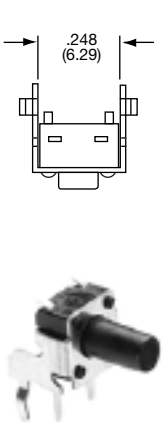
Contacts .....Copper alloy, silver clad plate
Case.....PBT
Actuator Button .....Nylon/acetal
Frame .....Steel, tin plate
Terminals .....Copper alloy, silver plate

ENVIRONMENTAL SPECIFICATIONS

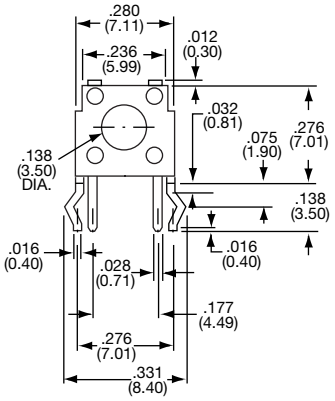
Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
Solder Heat Resistance.....See Page M3-4

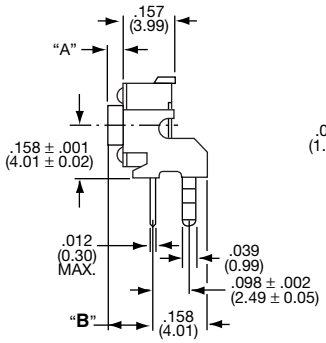
TYPICAL PERFORMANCE CHARACTERISTICS:

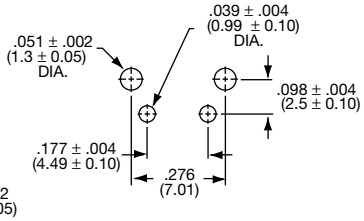
Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .012" (0,3)
Life Expectancy .....Up to 100,000 Cycles
Up to 50,000 Cycles 520 GF (AA option)



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	±50g Tolerance
FSMRA		J			

ACTUATOR LENGTH DIM "A" / SWITCH HEIGHT DIM "B"

.022" (0,56)	1	.124" (3,15)
.049" (1,24)	2	.152" (3,86)
.128" (3,25)	3	.230" (5,84)
.226" (5,74)	4	.329" (8,36)
.140" (3,55)	5	.242" (6,15)
.167" (4,24)	6	.269" (6,85)
.364" (9,24)	7	.467" (11,86)
.522" (13,26)	8	.624" (15,85)

BLANK = STD. TEMP.
H = HIGH TEMP.
MATERIAL: CASE, PPS
ACTUATOR, PPS
(ACTUATOR OPTIONS 1 - 2)

BLANK = 160 g (STD.)
A = 260 g (OPT.)
AA = 520 g (OPT.)
L = 100 g (OPT.)

CONSULT FACTORY FOR OTHER OPTIONS

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UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver clad plate
Case.....Nylon
Actuator Button .....Polyacetal Resin
Cover.....Pet film
Terminals .....Copper alloy, silver plate
Frame (R/A) .....Steel, tin plate

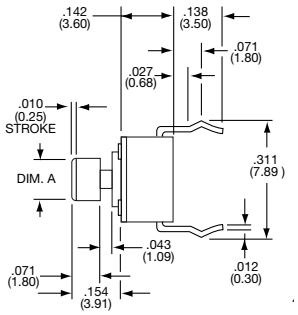
ENVIRONMENTAL SPECIFICATIONS

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 Resistance .....See Page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms Max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....100 and 160 ±50 Grams
Actuator Travel..... .010"(,254)
Life Expectancy .....Up to 100,000 Cycles

6 x 6 mm

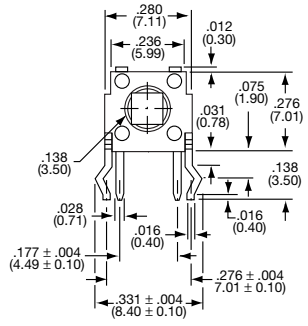




FSMCDA

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





FSMRACDA

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

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C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

Contacts .....Stainless steel, silver clad plate
Case Material .....FSMSM: PPS
Actuator Material .....FSMSM: Nylon
FSMJM: PPS
Terminals .....Copper alloy, silver plate or tin plate
Cover.....Stainless steel

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 Resistance.....FSMSM 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)

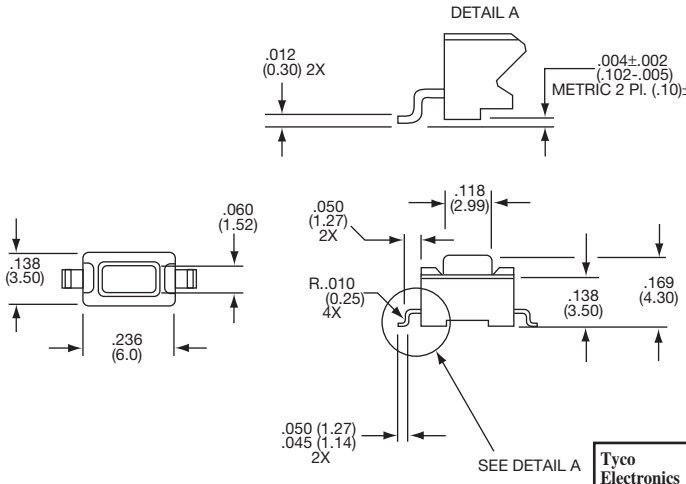
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 500 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuator Travel.....010"(.254)
Life Expectancy .....20,000-40,000 Cycles

3.5 x 6.0 mm



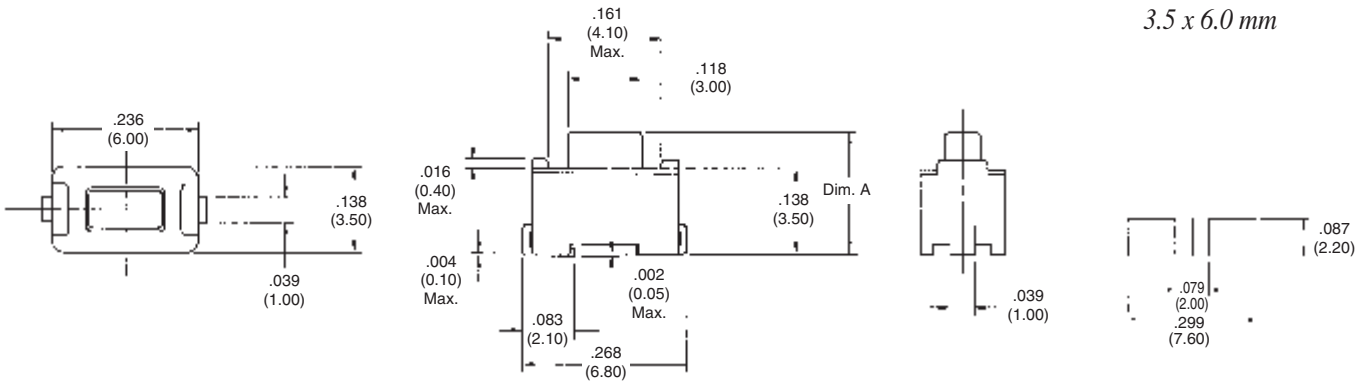
FSMSM



Tyco Electronics	Alcoswitch	Type			Packaging	Actuation Force	Life Cycle
1437566-3	FSMSM	SPST	Off	(On)	Bulk	180±50	20,000
1437566-4	FSMSMTR				Reel	180±50	20,000

(On) indicates momentary position.

3.5 x 6.0 mm



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

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

MATERIAL SPECIFICATIONS:

Contacts .....Copper alloy, silver plate
Case.....PPS
Actuator Button .....PPS
Cover.....Steel, tin plate
Terminals .....Copper alloy, silver plate

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 Resistance.....IR Soldering EIA-364-56
Procedure 5 Level 3, 500°F (260°C)

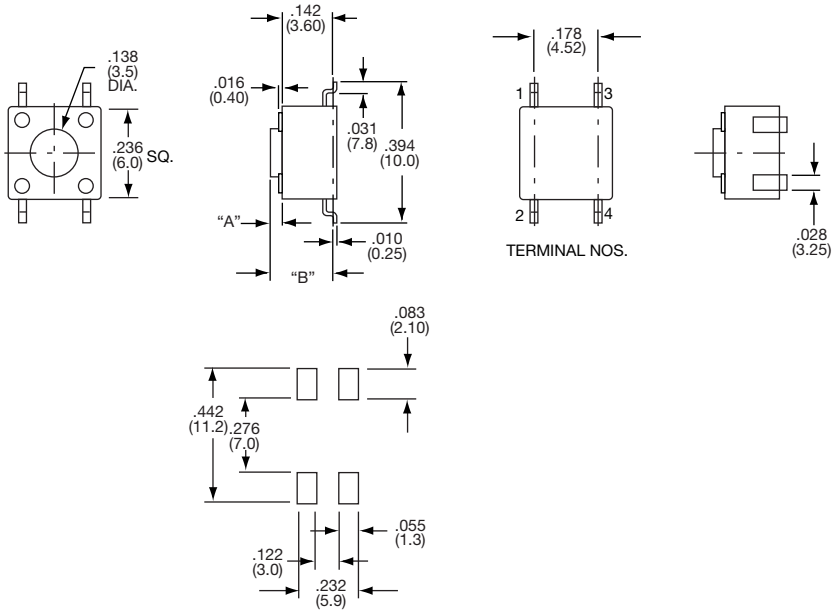
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....50 mA @ 12 VDC
Initial Contact Resistance.....100 Milliohms max.
Insulation Resistance .....100 Megohms min. @ 100 VDC
Dielectric Strength .....500 VAC for 1 minute
Actuation Force .....See Below
Actuator Travel..... .010"(.254)
Life Expectancy .....Up to 100,000 Cycles

6 x 6 mm



FSMJSMA



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

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