

| REVISIONS | | | | |
|-----------|-------------|---------------|-----------|-------|
| P | LTR | DESCRIPTION | DATE | APP'D |
| B4 | REVISED PER | ECO-17-002273 | 10OCT2017 | RK AS |

SPECIFICATIONS:

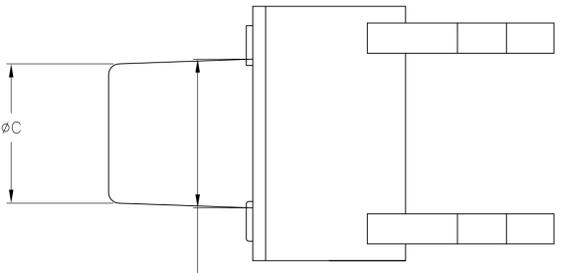
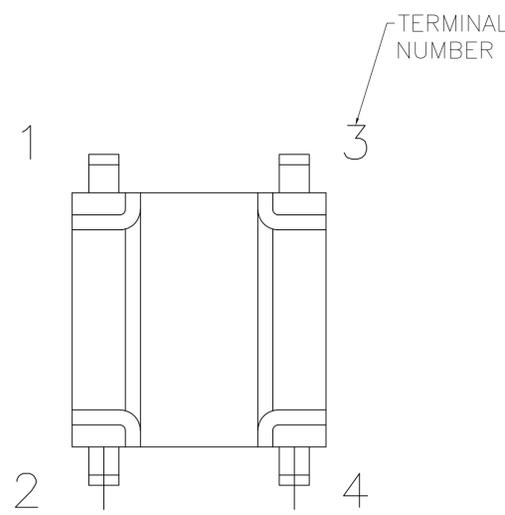
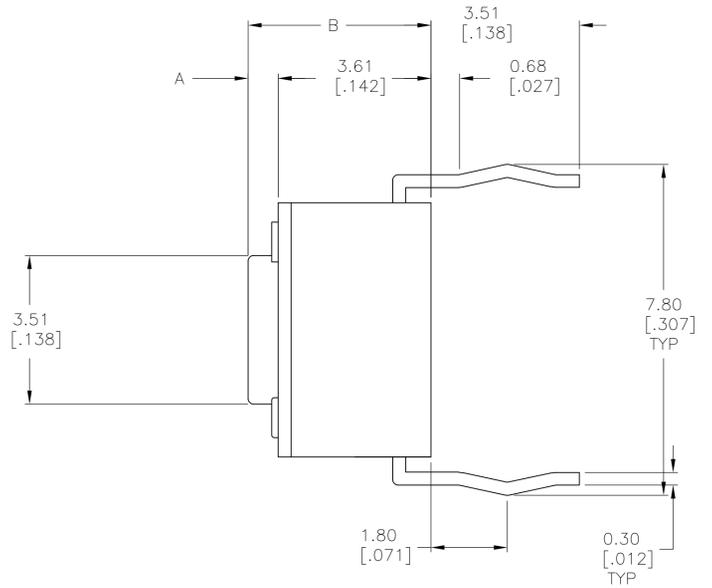
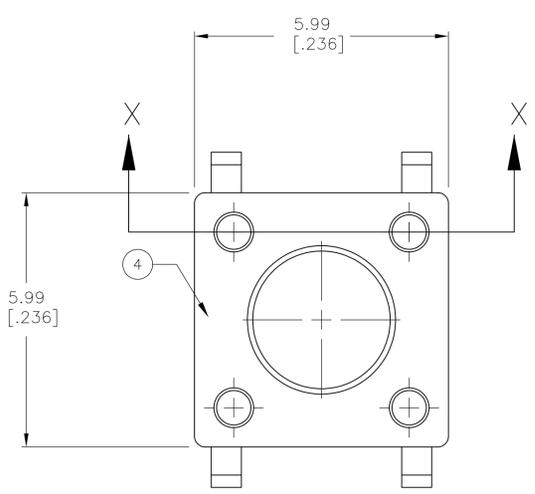
MATERIALS:
CASE: NYLON 66, BLACK
ACTUATOR: NYLON 66 OR PPS, SEE P/N TABLE
COVER: STEEL, TIN FINISH
MOVING CONTACT: COPPER ALLOY-SILVER FINISH
FIXED CONTACT/TERMINAL: COPPER ALLOY-SILVER OVER NICKEL FINISH

ELECTRICAL:
MAX CONTACT RATING: 50MILLIAMPS@24V DC,
MIN CONTACT RATING: 10MICROAMPS@1V DC
INITIAL CONTACT RESISTANCE, 100 MILLIOHMS MAX
INSULATION RESISTANCE, 100 MEGOHM MIN. @ 100V DC
DIELECTRIC STRENGTH, 500 V AC FOR 1 MINUTE
LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND AND 150% ACTUATION FORCE), EXCEPT FOR THE 520 GF MODEL WHICH WOULD BE 50,000 CYCLES MIN.

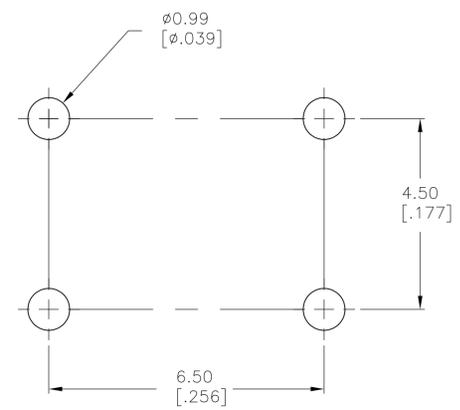
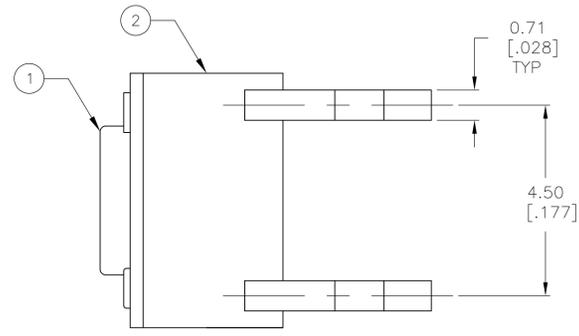
MECHANICAL:
ACTUATION FORCE, SEE TABLE
ACTUATION TRAVEL, .010 +.008/-.004
LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND AND 150% ACTUATION FORCE), EXCEPT FOR THE 520 GF MODEL WHICH WOULD BE 50,000 CYCLES MIN.

ENVIRONMENTAL:
OPERATING TEMPERATURE, -35 TO +85 DEGREES C
STORAGE TEMPERATURE, -35 TO +85 DEGREES C
THERMAL SHOCK, PER EIA-364-32C, -35 TO +85 DEGREES C
SOLDERABILITY, PER EIA-364-52, CLASS 2, CATEGORY 1, CATEGORY 2, 95% MINIMUM COVERAGE
RESISTANCE TO SOLDER HEAT, PER 109-202, CONDITION B

Notes:
1. ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).



VIEW A-A
FSM6J THRU FSM18J



RECOMMENDED HOLE LAYOUT
TOLERANCE ±0.05[.002] UNLESS OTHERWISE NOTED

| CIRCUIT CHARACTERISTICS | | |
|-------------------------|-----------------|--|
| CONTACT POSITION | CIRCUIT DIAGRAM | |
| OFF | | |
| (ON) 1-3 2-4 | | |

| | ACTUATOR MAT'L | ACTUATOR COLOR | ACTUATION FORCE | DIM C | DIM B | DIM A | ALCO P/N | TE P/N |
|----------|----------------|----------------|-----------------|-------------|--------------|--------------|------------|-------------|
| OBSOLETE | NYLON 6T | YELLOW | 520 +/-100 GF | 3.09 (.122) | 8.50 (.335) | 4.90 (.193) | FSM18JAAHX | 3-1977120-7 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 3.09 (.122) | 8.50 (.335) | 4.90 (.193) | FSM18JAHX | 3-1977120-6 |
| | PPS | BLACK | 160 +/-50 GF | 3.09 (.122) | 8.50 (.335) | 4.90 (.193) | FSM18JLHX | 3-1977120-5 |
| | PPS | BROWN | 100 +/-50 GF | 3.09 (.122) | 8.50 (.335) | 4.90 (.193) | FSM18JLHX | 3-1977120-4 |
| | NYLON 6T | YELLOW | 520 +/-100 GF | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JAAHX | 3-1977120-3 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JAHX | 3-1977120-2 |
| OBSOLETE | PPS | BLACK | 160 +/-50 GF | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JHXX | 3-1977120-1 |
| | PPS | BROWN | 100 +/-50 GF | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JLHX | 3-1977120-0 |
| | NYLON 6T | YELLOW | 520 +/-100 GF | 2.87 (.118) | 13.00 (.512) | 9.40 (.370) | FSM14JAAHX | 2-1977120-9 |
| OBSOLETE | NYLON 6T | WHITE | 260 +/-50 GF | 2.87 (.118) | 13.00 (.512) | 9.40 (.370) | FSM14JAHX | 2-1977120-8 |
| | PPS | BLACK | 160 +/-50 GF | 2.87 (.118) | 13.00 (.512) | 9.40 (.370) | FSM14JHXX | 2-1977120-7 |
| | PPS | BROWN | 100 +/-50 GF | 2.87 (.118) | 13.00 (.512) | 9.40 (.370) | FSM14JLHX | 2-1977120-6 |
| OBSOLETE | NYLON 6T | YELLOW | 520 +/-100 GF | 3.20 (.126) | 8.00 (.315) | 4.40 (.173) | FSM12JAAHX | 2-1977120-5 |
| | PPS | BLACK | 260 +/-50 GF | 3.20 (.126) | 8.00 (.315) | 4.40 (.173) | FSM12JABHX | 2-1977120-4 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 3.20 (.126) | 8.00 (.315) | 4.40 (.173) | FSM12JAHX | 2-1977120-3 |
| OBSOLETE | PPS | BLACK | 160 +/-50 GF | 3.20 (.126) | 8.00 (.315) | 4.40 (.173) | FSM12JHXX | 2-1977120-2 |
| OBSOLETE | PPS | BROWN | 100 +/-50 GF | 3.20 (.126) | 8.00 (.315) | 4.40 (.173) | FSM12JLHX | 2-1977120-1 |
| OBSOLETE | NYLON 6T | YELLOW | 520 +/-100 GF | 3.25 (.128) | 7.30 (.287) | 3.70 (.146) | FSM10JAAHX | 2-1977120-0 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 3.25 (.128) | 7.30 (.287) | 3.70 (.146) | FSM10JAHX | 1-1977120-9 |
| | PPS | BLACK | 160 +/-50 GF | 3.25 (.128) | 7.30 (.287) | 3.70 (.146) | FSM10JHXX | 1-1977120-8 |
| | PPS | BROWN | 100 +/-50 GF | 3.25 (.128) | 7.30 (.287) | 3.70 (.146) | FSM10JLHX | 1-1977120-7 |
| OBSOLETE | NYLON 6T | YELLOW | 520 +/-100 GF | 3.10 (.122) | 9.50 (.374) | 5.90 (.232) | FSM8JAAHX | 1-1977120-6 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 3.10 (.122) | 9.50 (.374) | 5.90 (.232) | FSM8JAHX | 1-1977120-5 |
| | PPS | BLACK | 160 +/-50 GF | 3.10 (.122) | 9.50 (.374) | 5.90 (.232) | FSM8JHXX | 1-1977120-4 |
| OBSOLETE | PPS | BROWN | 100 +/-50 GF | 3.10 (.122) | 9.50 (.374) | 5.90 (.232) | FSM8JLHX | 1-1977120-3 |
| | NYLON 6T | YELLOW | 520 +/-100 GF | 3.30 (.130) | 7.00 (.276) | 3.40 (.134) | FSM6JAAHX | 1-1977120-2 |
| | NYLON 6T | WHITE | 260 +/-50 GF | 3.30 (.130) | 7.00 (.276) | 3.40 (.134) | FSM6JAHX | 1-1977120-1 |
| OBSOLETE | PPS | BLACK | 160 +/-50 GF | 3.30 (.130) | 7.00 (.276) | 3.40 (.134) | FSM6JHXX | 1-1977120-0 |
| | PPS | BROWN | 100 +/-50 GF | 3.30 (.130) | 7.00 (.276) | 3.40 (.134) | FSM6JLHX | 1977120-9 |
| | NYLON 6T | YELLOW | 520 +/-100 GF | N/A | 5.00 (.196) | 1.40 (.055) | FSM4JAAHX | 1977120-8 |
| OBSOLETE | NYLON 6T | WHITE | 260 +/-50 GF | N/A | 5.00 (.196) | 1.40 (.055) | FSM4JAHX | 1977120-7 |
| | PPS | BLACK | 160 +/-50 GF | N/A | 5.00 (.196) | 1.40 (.055) | FSM4JHXX | 1977120-6 |
| | PPS | BROWN | 100 +/-50 GF | N/A | 5.00 (.196) | 1.40 (.055) | FSM4JLHX | 1977120-5 |
| OBSOLETE | NYLON 6T | YELLOW | 520 +/-100 GF | N/A | 4.30 (.169) | 0.70 (.028) | FSM2JAAHX | 1977120-4 |
| | NYLON 6T | WHITE | 260 +/-50 GF | N/A | 4.30 (.169) | 0.70 (.028) | FSM2JAHX | 1977120-3 |
| | PA6T | GRAY | 160 +/-50 GF | N/A | 4.30 (.169) | 0.70 (.028) | FSM2JHXX | 1977120-2 |
| OBSOLETE | PPS | BROWN | 100 +/-50 GF | N/A | 4.30 (.169) | 0.70 (.028) | FSM2JLHX | 1977120-1 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

| | | | |
|-----------------------------|--|-----------------------|---|
| DIMENSIONS: mm [INCHES] | TOLERANCES UNLESS OTHERWISE SPECIFIED: | DIN M. BINNER 07JUN07 | TE Connectivity |
| 0 PLC ± - | 1 PLC ± 0.30 [.012] | 07JUN07 | 6MM TACT SWITCH, THRU-HOLE HIGH TEMP |
| 2 PLC ± - | 3 PLC ± - | 07JUN07 | APPLICATION SPEC |
| 4 PLC ± - | ANGLES ± - | | SIZE CASE CODE DRAWING NO RESTRICTED TO |
| MATERIAL SEE SPECIFICATIONS | FINISH - | WEIGHT | A1 00779 1977120 |
| | | CUSTOMER DRAWING | SCALE 12:1 SHEET 1 OF 1 REV B4 |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[FSM8JLHX](#) [FSM18JHX](#) [FSM16JAAHX](#) [FSM8JAAHX](#) [FSM8JHX](#) [FSM4JLHX](#) [FSM18JAHX](#) [FSM4JAHX](#)
[FSM10JLHX](#) [FSM13JAAH](#) [FSM18JLHX](#) [FSM18JAAHX](#)