

| REVISIONS |                           |             |           |       |
|-----------|---------------------------|-------------|-----------|-------|
| P         | LTR                       | DESCRIPTION | DATE      | APP'D |
| C10       | REVISED PER ECO-17-002273 |             | 10OCT2017 | RK AS |

**SPECIFICATIONS:**

**MATERIALS:**  
CASE: NYLON 66 UL94HB, 30% GF-BLACK  
ACTUATOR: PBT OR NYLON 66 UL94HB, SEE P/N TABLE  
COVER: PET FILM, WHITE FINISH  
MOVING CONTACT: COPPER ALLOY-SILVER FINISH  
FIXED CONTACT/TERMINAL: COPPER ALLOY-SILVER OVER NICKEL FINISH

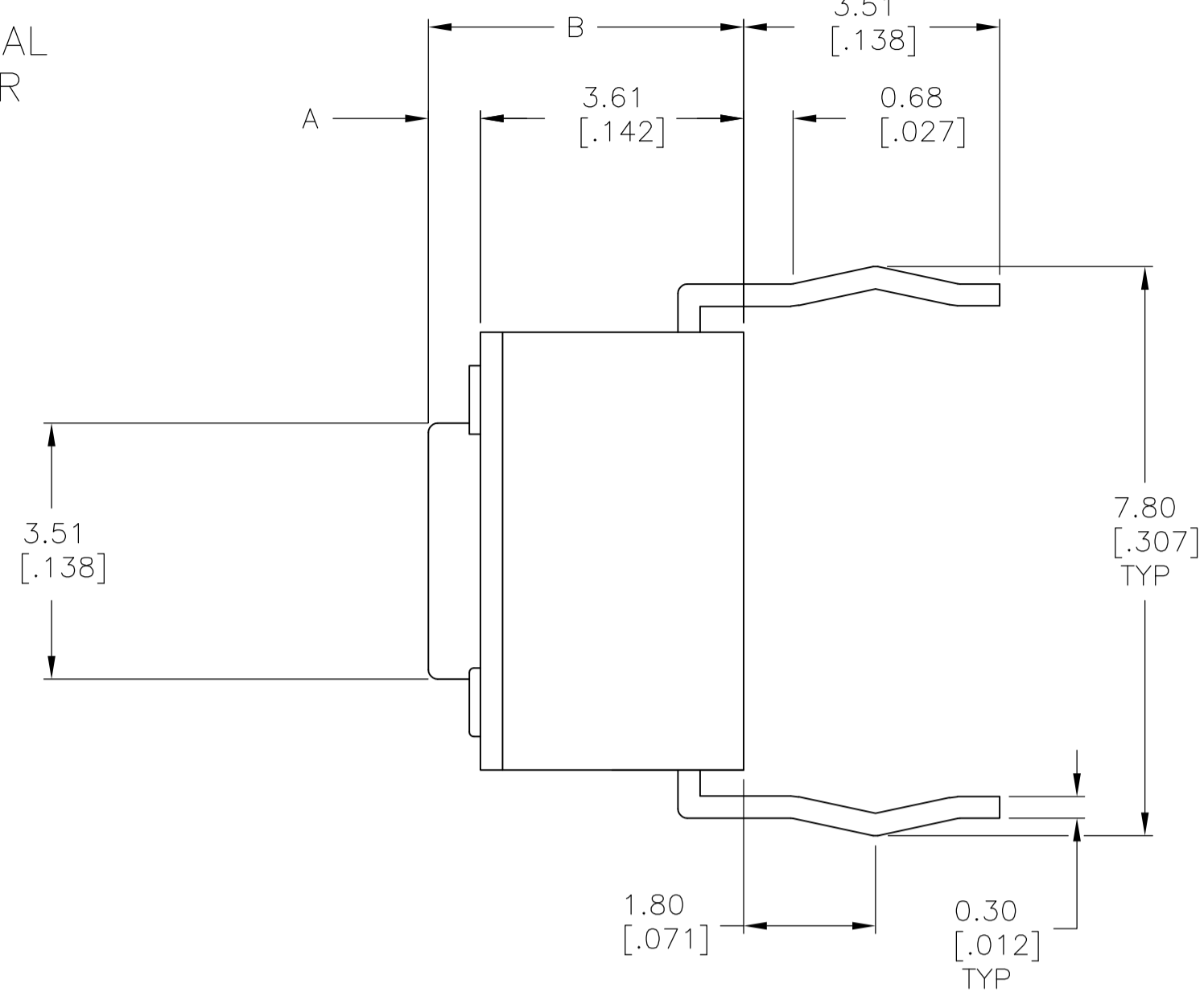
**ELECTRICAL:**  
MAX CONTACT RATING: 50MILLIAMPS@24V DC,  
MIN CONTACT RATING: 10MICROAMPS@1V DC  
INITIAL CONTACT RESISTANCE, 100 MILLIOHMS MAX  
INSULATION RESISTANCE, 100 MEGOHM MIN. @ 100V DC  
DIELECTRIC STRENGTH, 500 V AC FOR 1 MINUTE  
LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND 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).

|          | ACTUATOR MAT'L | ACTUATOR COLOR | ACTUATION FORCE | DIM C       | DIM B        | DIM A        | ALCO P/N  | P/N         |
|----------|----------------|----------------|-----------------|-------------|--------------|--------------|-----------|-------------|
|          | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 3.30 (.130) | 7.00 (.276)  | 3.40 (.134)  | FSM6JLHTB | 3-1825910-9 |
| OBSOLETE | PBT            | BROWN          | 100 +/-50 GF    | N/A         | 5.00 (.196)  | 1.40 (.055)  | FSM4JLHTB | 3-1825910-8 |
| OBSOLETE | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 3.09 (.122) | 8.50 (.335)  | 4.90 (.193)  | FSM18JAAH | 3-1825910-7 |
| OBSOLETE | NYLON 6/6      | RED            | 260 +/-50 GF    | 3.09 (.122) | 8.50 (.335)  | 4.90 (.193)  | FSM18JAH  | 3-1825910-6 |
|          | NYLON 6/6      | BLACK          | 160 +/-50 GF    | 3.09 (.122) | 8.50 (.335)  | 4.90 (.193)  | FSM18JH   | 3-1825910-5 |
| OBSOLETE | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 3.09 (.122) | 8.50 (.335)  | 4.90 (.193)  | FSM18JLH  | 3-1825910-4 |
|          | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JAAH | 3-1825910-3 |
|          | NYLON 6/6      | RED            | 260 +/-50 GF    | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JAH  | 3-1825910-2 |
|          | NYLON 6/6      | BLACK          | 160 +/-50 GF    | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JH   | 3-1825910-1 |
| OBSOLETE | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 2.80 (.110) | 17.00 (.669) | 13.40 (.527) | FSM16JLH  | 3-1825910-0 |
|          | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 2.87 (.113) | 13.00 (.512) | 9.40 (.370)  | FSM14JAAH | 2-1825910-9 |
|          | NYLON 6/6      | RED            | 260 +/-50 GF    | 2.87 (.113) | 13.00 (.512) | 9.40 (.370)  | FSM14JAH  | 2-1825910-8 |
|          | NYLON 6/6      | BLACK          | 160 +/-50 GF    | 2.87 (.113) | 13.00 (.512) | 9.40 (.370)  | FSM14JH   | 2-1825910-7 |
|          | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 2.87 (.113) | 13.00 (.512) | 9.40 (.370)  | FSM14JLH  | 2-1825910-6 |
| OBSOLETE | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 3.20 (.126) | 8.00 (.315)  | 4.40 (.173)  | FSM12JAAH | 2-1825910-5 |
| OBSOLETE | NYLON 6/6      | BLACK          | 260 +/-50 GF    | 3.20 (.126) | 8.00 (.315)  | 4.40 (.173)  | FSM12JABH | 2-1825910-4 |
| OBSOLETE | NYLON 6/6      | RED            | 260 +/-50 GF    | 3.20 (.126) | 8.00 (.315)  | 4.40 (.173)  | FSM12JAH  | 2-1825910-3 |
|          | NYLON 6/6      | WHITE          | 160 +/-50 GF    | 3.20 (.126) | 8.00 (.315)  | 4.40 (.173)  | FSM12JH   | 2-1825910-2 |
| OBSOLETE | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 3.20 (.126) | 8.00 (.315)  | 4.40 (.173)  | FSM12JLH  | 2-1825910-1 |
| OBSOLETE | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 3.25 (.128) | 7.30 (.287)  | 3.70 (.146)  | FSM10JAAH | 2-1825910-0 |
|          | NYLON 6/6      | RED            | 260 +/-50 GF    | 3.25 (.128) | 7.30 (.287)  | 3.70 (.146)  | FSM10JAH  | 1-1825910-9 |
|          | NYLON 6/6      | IVORY          | 160 +/-50 GF    | 3.25 (.128) | 7.30 (.287)  | 3.70 (.146)  | FSM10JH   | 1-1825910-8 |
| OBSOLETE | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 3.25 (.128) | 7.30 (.287)  | 3.70 (.146)  | FSM10JLH  | 1-1825910-7 |
| OBSOLETE | PBT            | YELLOW         | 520 +/-100 GF   | 3.10 (.122) | 9.50 (.374)  | 5.90 (.232)  | FSM8JAAH  | 1-1825910-6 |
|          | PBT            | RED            | 260 +/-50 GF    | 3.10 (.122) | 9.50 (.374)  | 5.90 (.232)  | FSM8JAH   | 1-1825910-5 |
|          | PBT            | BLACK          | 160 +/-50 GF    | 3.10 (.122) | 9.50 (.374)  | 5.90 (.232)  | FSM8JH    | 1-1825910-4 |
|          | PBT            | BROWN          | 100 +/-50 GF    | 3.10 (.122) | 9.50 (.374)  | 5.90 (.232)  | FSM8JLH   | 1-1825910-3 |
|          | NYLON 6/6      | YELLOW         | 520 +/-100 GF   | 3.30 (.130) | 7.00 (.276)  | 3.40 (.134)  | FSM6JAAH  | 1-1825910-2 |
|          | NYLON 6/6      | RED            | 260 +/-50 GF    | 3.30 (.130) | 7.00 (.276)  | 3.40 (.134)  | FSM6JAH   | 1-1825910-1 |
|          | NYLON 6/6      | BLUE           | 160 +/-50 GF    | 3.30 (.130) | 7.00 (.276)  | 3.40 (.134)  | FSM6JH    | 1-1825910-0 |
|          | NYLON 6/6      | BROWN          | 100 +/-50 GF    | 3.30 (.130) | 7.00 (.276)  | 3.40 (.134)  | FSM6JLH   | 1825910-9   |
|          | PBT            | YELLOW         | 520 +/-100 GF   | N/A         | 5.00 (.196)  | 1.40 (.055)  | FSM4JAAH  | 1825910-8   |
|          | PBT            | RED            | 260 +/-50 GF    | N/A         | 5.00 (.196)  | 1.40 (.055)  | FSM4JAH   | 1825910-7   |
|          | PBT            | BLACK          | 160 +/-50 GF    | N/A         | 5.00 (.196)  | 1.40 (.055)  | FSM4JH    | 1825910-6   |
| OBSOLETE | PBT            | BROWN          | 100 +/-50 GF    | N/A         | 5.00 (.196)  | 1.40 (.055)  | FSM4JLH   | 1825910-5   |
| OBSOLETE | PBT            | YELLOW         | 520 +/-100 GF   | N/A         | 4.30 (.169)  | 0.70 (.028)  | FSM2JAAH  | 1825910-4   |
|          | PBT            | RED            | 260 +/-50 GF    | N/A         | 4.30 (.169)  | 0.70 (.028)  | FSM2JAH   | 1825910-3   |
|          | PBT            | NATURAL        | 160 +/-50 GF    | N/A         | 4.30 (.169)  | 0.70 (.028)  | FSM2JH    | 1825910-2   |
|          | PBT            | BROWN          | 100 +/-50 GF    | N/A         | 4.30 (.169)  | 0.70 (.028)  | FSM2JLH   | 1825910-1   |



VIEW A-A  
FSM6J THRU FSM18J



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

| ( )-INDICATES MOMENTARY POSITION |                    |                 |
|----------------------------------|--------------------|-----------------|
| CIRCUIT CHARACTERISTICS          |                    |                 |
| CONTACT POSITION                 |                    | CIRCUIT DIAGRAM |
| OFF                              | (ON)<br>1-3<br>2-4 |                 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

|                              |                                        |            |           |                     |             |               |            |
|------------------------------|----------------------------------------|------------|-----------|---------------------|-------------|---------------|------------|
| DIMENSIONS: mm [INCHES]      | TOLERANCES UNLESS OTHERWISE SPECIFIED: | 0 PLC ± -  | 1 PLC ± - | 2 PLC ± 0.30 [.012] | 3 PLC ± -   | 4 PLC ± -     | ANGLES ± - |
| MATERIAL: SEE SPECIFICATIONS | FINISH: -                              | WEIGHT: A1 | 00779     | C=1825910           | SCALE: 12:1 | SHEET: 1 OF 1 | REV: C10   |

**STE** TE Connectivity  
6MM TACT SWITCH, THRU-HOLE HIGH TEMP

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