

SPECIFICATIONS:

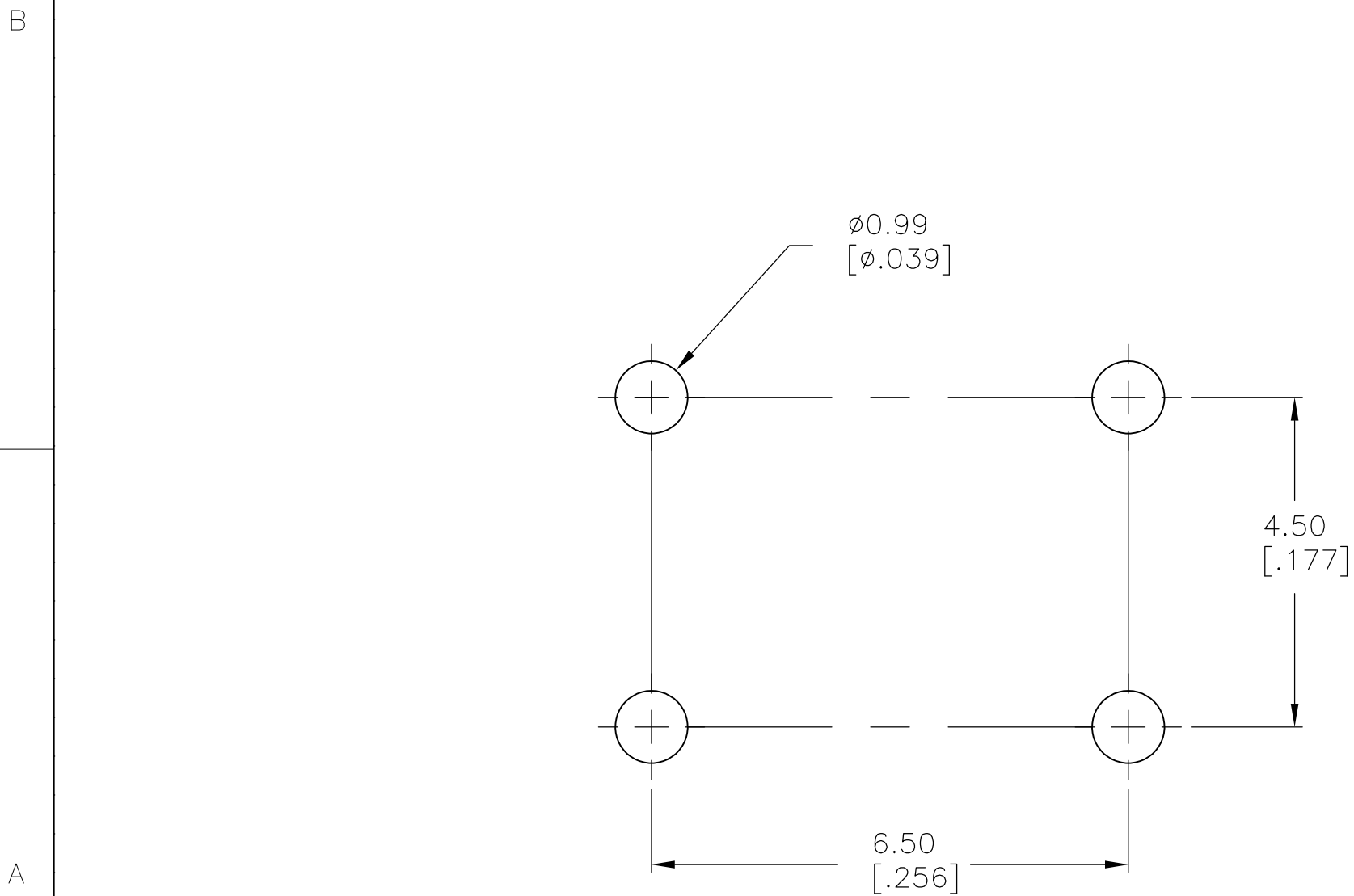
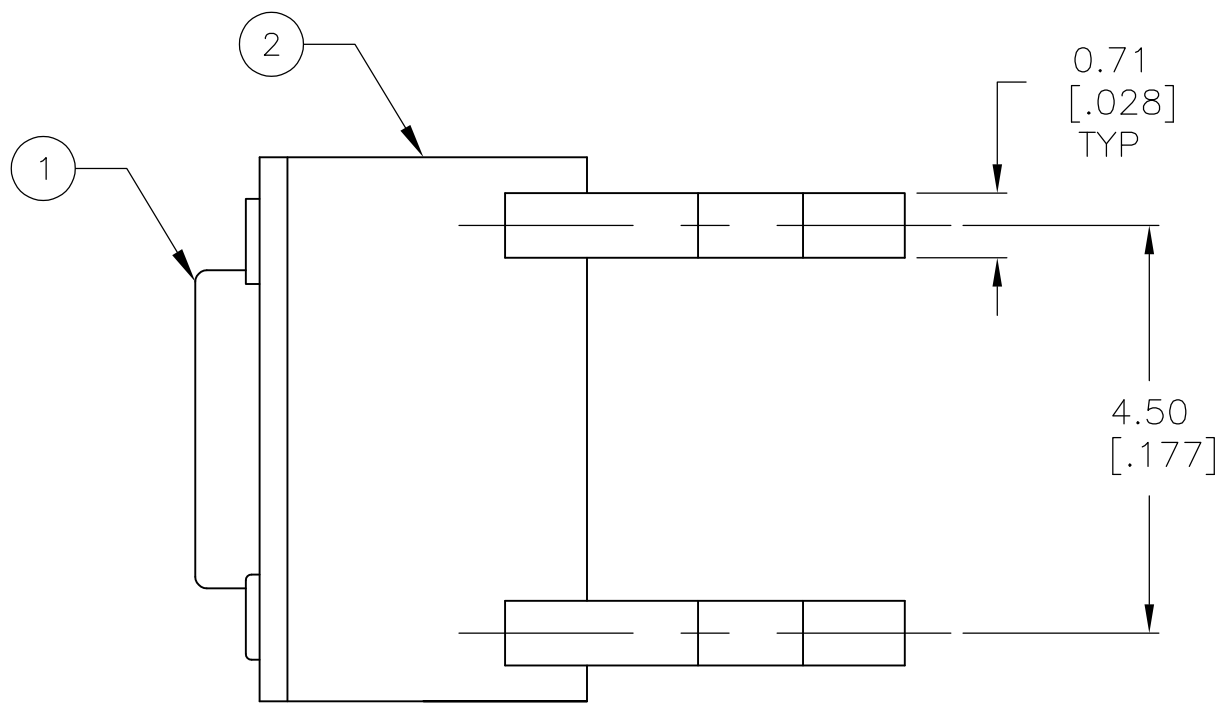
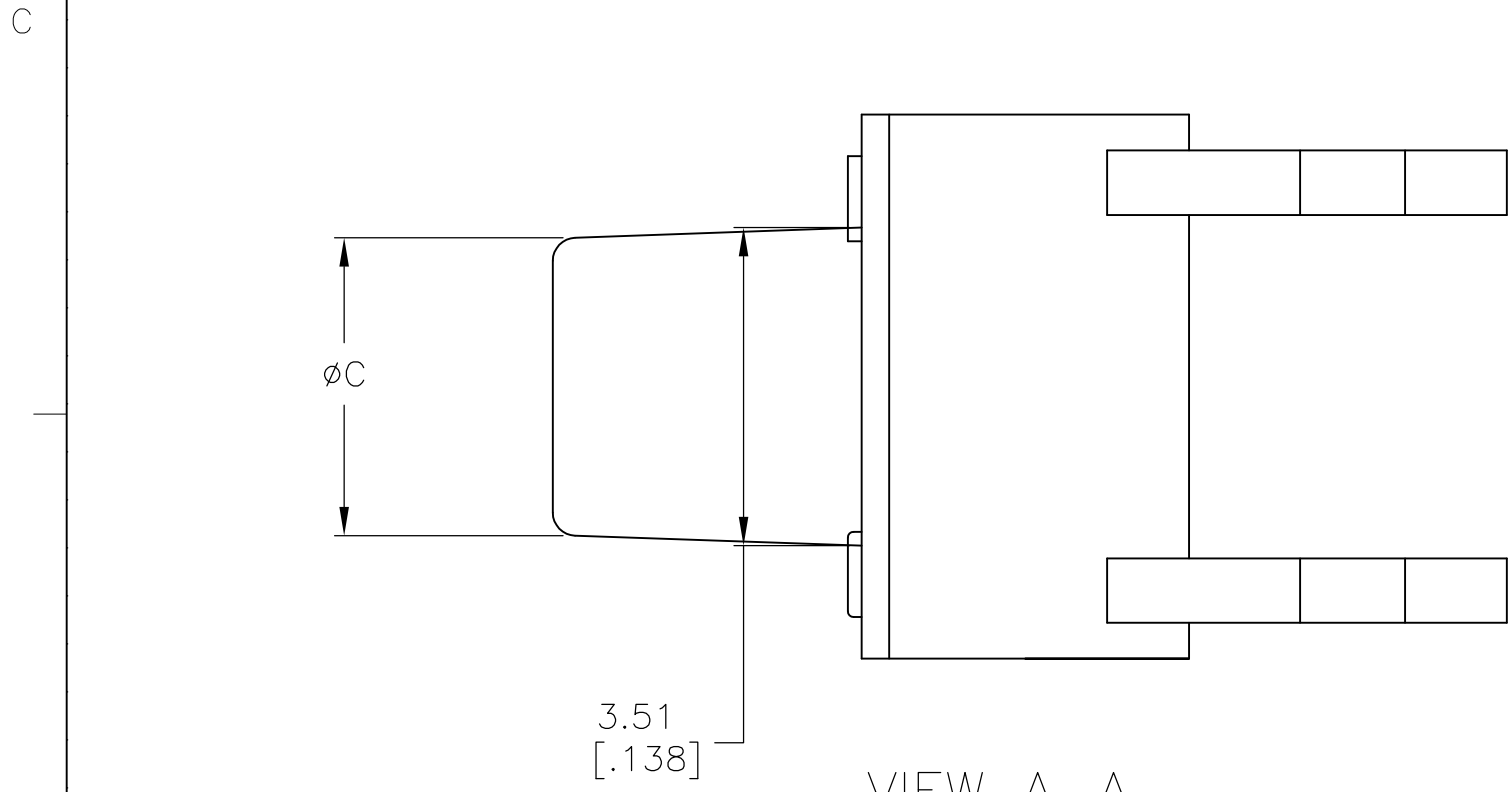
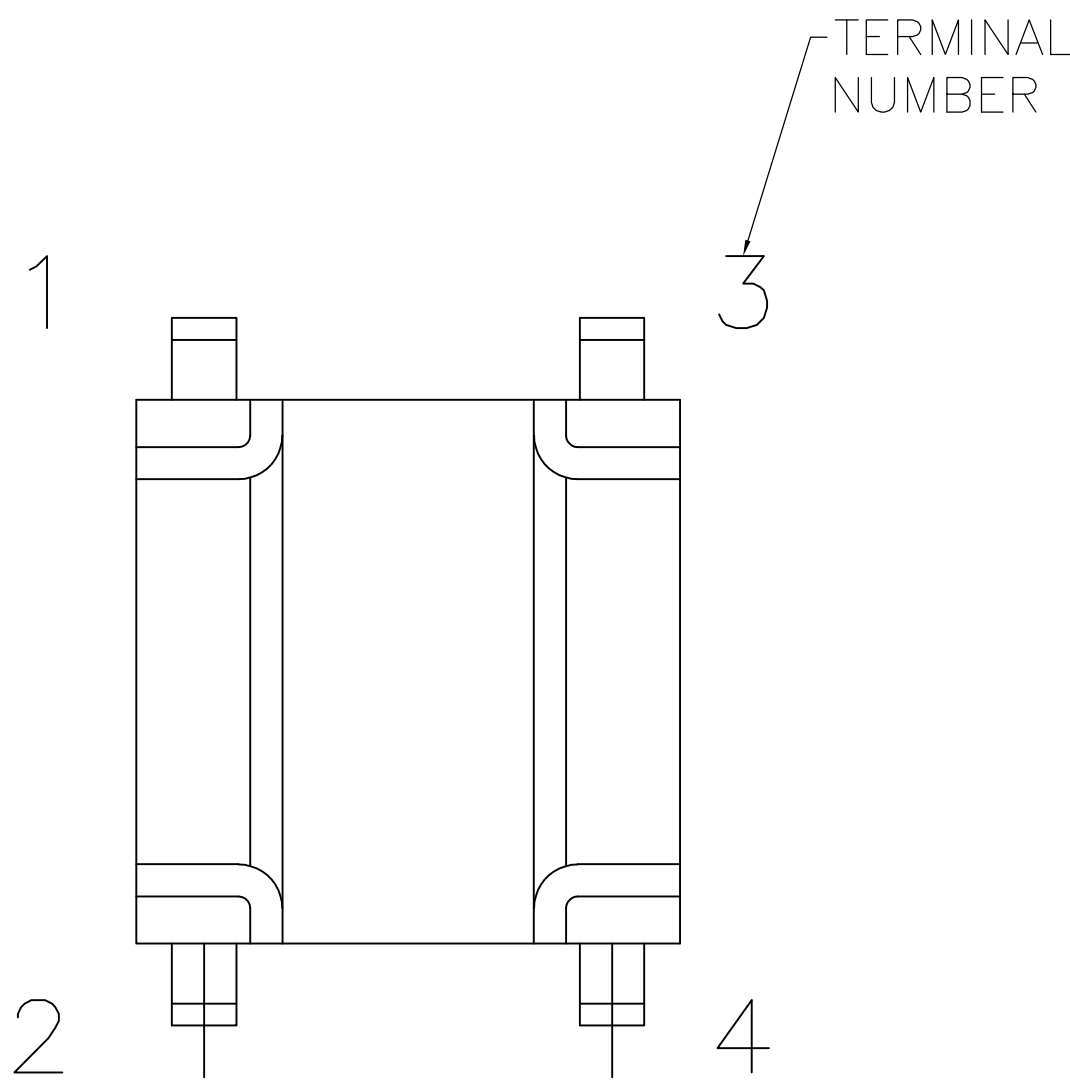
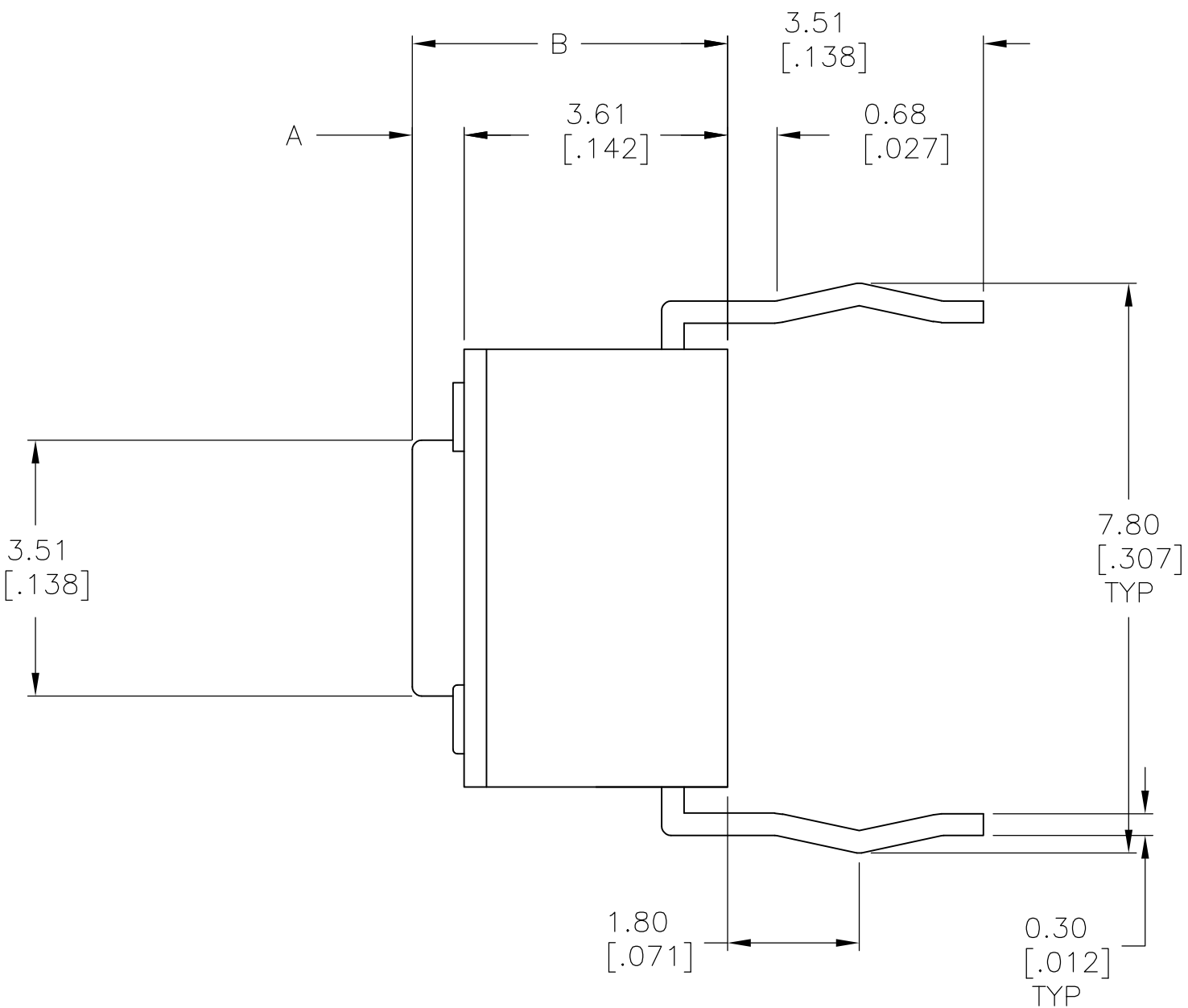
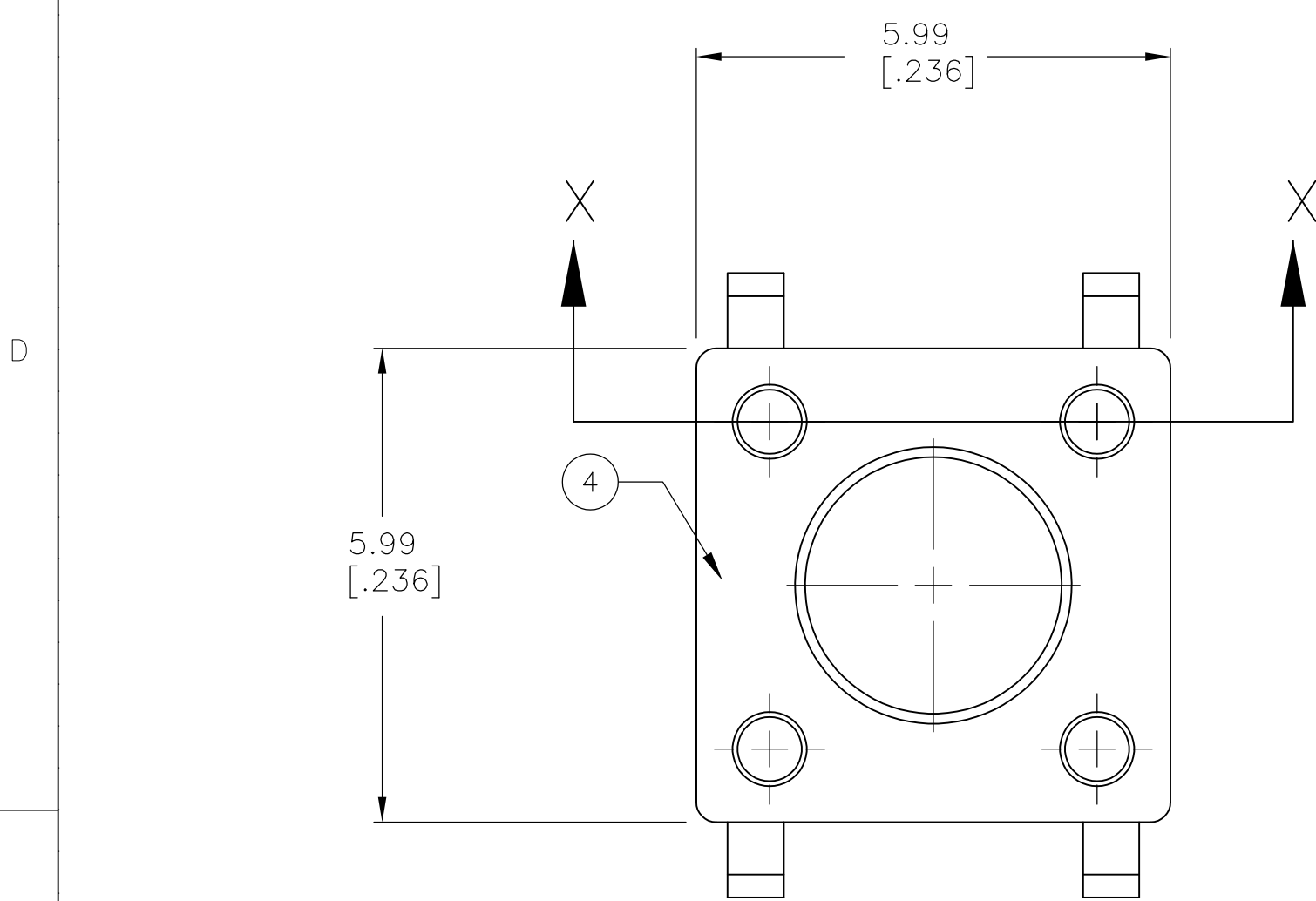
MATERIALS:  
CASE: NYLON 66, BLACK  
ACTUATOR: NYLON 66 OR PPS, SEE P/N TABLE  
COVER: STEEL, TIN FINISH  
MOVING CONTACT: COPPER ALLOY-SILVER FINISH  
FIXED CONTACT/TERMINAL: COPPER ALLOY-SILVER OVER NICKEL FINISH

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).



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

|          |          |                |                |                 |              |              |            |             |
|----------|----------|----------------|----------------|-----------------|--------------|--------------|------------|-------------|
| 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)  | FSM18JHX   | 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 |
|          | PPS      | BLACK          | 160 +/-50 GF   | 2.80 (.110)     | 17.00 (.669) | 13.40 (.527) | FSM16JHX   | 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 |
|          | NYLON 6T | WHITE          | 260 +/-50 GF   | 2.87 (.118)     | 13.00 (.512) | 9.40 (.370)  | FSM14JAHX  | 2-1977120-8 |
| OBSOLETE | PPS      | BLACK          | 160 +/-50 GF   | 2.87 (.118)     | 13.00 (.512) | 9.40 (.370)  | FSM14JHX   | 2-1977120-7 |
|          | PPS      | BROWN          | 100 +/-50 GF   | 2.87 (.118)     | 13.00 (.512) | 9.40 (.370)  | FSM14JLHX  | 2-1977120-6 |
|          | 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 |
|          | PPS      | BLACK          | 160 +/-50 GF   | 3.20 (.126)     | 8.00 (.315)  | 4.40 (.173)  | FSM12JHX   | 2-1977120-2 |
|          | PPS      | BROWN          | 100 +/-50 GF   | 3.20 (.126)     | 8.00 (.315)  | 4.40 (.173)  | FSM12JLHX  | 2-1977120-1 |
|          | NYLON 6T | YELLOW         | 520 +/-100 GF  | 3.25 (.128)     | 7.30 (.287)  | 3.70 (.146)  | FSM10JAAHX | 2-1977120-0 |
| OBSOLETE | 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)  | FSM10JHX   | 1-1977120-8 |
| OBSOLETE | PPS      | BROWN          | 100 +/-50 GF   | 3.25 (.128)     | 7.30 (.287)  | 3.70 (.146)  | FSM10JLHX  | 1-1977120-7 |
|          | 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)   | FSM8JHX    | 1-1977120-4 |
|          | 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 |
|          | PPS      | BLACK          | 160 +/-50 GF   | 3.30(.130)      | 7.00 (.276)  | 3.40 (.134)  | FSM6JHX    | 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   |
|          | 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)  | FSM4JHX    | 1977120-6   |
|          | PPS      | BROWN          | 100 +/-50 GF   | N/A             | 5.00 (.196)  | 1.40 (.055)  | FSM4JLHX   | 1977120-5   |
|          | 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)  | FSM2JHX    | 1977120-2   |
|          | PPS      | BROWN          | 100 +/-50 GF   | N/A             | 4.30 (.169)  | 0.70 (.028)  | FSM2JLHX   | 1977120-1   |
|          |          | ACTUATOR MAT'L | ACTUATOR COLOR | ACTUATION FORCE | DIM C        | DIM B        | DIM A      | ALCO P/N    |

|                                                                                       |  |                                                                                                                                            |         |                                                                                                       |  |
|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWG: <b>M-BINNER</b>                                                                                                                       | 07JUN07 |  TE Connectivity |  |
|                                                                                       |  | CHK: <b>M-SARVER</b>                                                                                                                       | 07JUN07 |                                                                                                       |  |
| DIMENSIONS:<br>mm [INCHES]                                                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± 0.30 [012]<br>3 PLC ± -<br>4 PLC ± -<br>ANGLES ± -<br>FINISH - |         | NAME<br>6MM TACT SWITCH,<br>THRU-HOLE HIGH TEMP<br>-                                                  |  |
|  |  | PRODUCT SPEC                                                                                                                               |         | SIZE                                                                                                  |  |
|                                                                                       |  | APPLICATION SPEC                                                                                                                           |         | CAGE CODE                                                                                             |  |
| MATERIAL<br>SEE SPECIFICATIONS                                                        |  | WEIGHT -                                                                                                                                   |         | DRAWING NO                                                                                            |  |
|                                                                                       |  |                                                                                                                                            |         | RESTRICTED TO                                                                                         |  |
|                                                                                       |  |                                                                                                                                            |         | A1 00779 C 1977120                                                                                    |  |
|                                                                                       |  | CUSTOMER DRAWING                                                                                                                           |         | SCALE 12:1                                                                                            |  |
|                                                                                       |  |                                                                                                                                            |         | SHEET 1 OF 1                                                                                          |  |
|                                                                                       |  |                                                                                                                                            |         | REV B3                                                                                                |  |

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