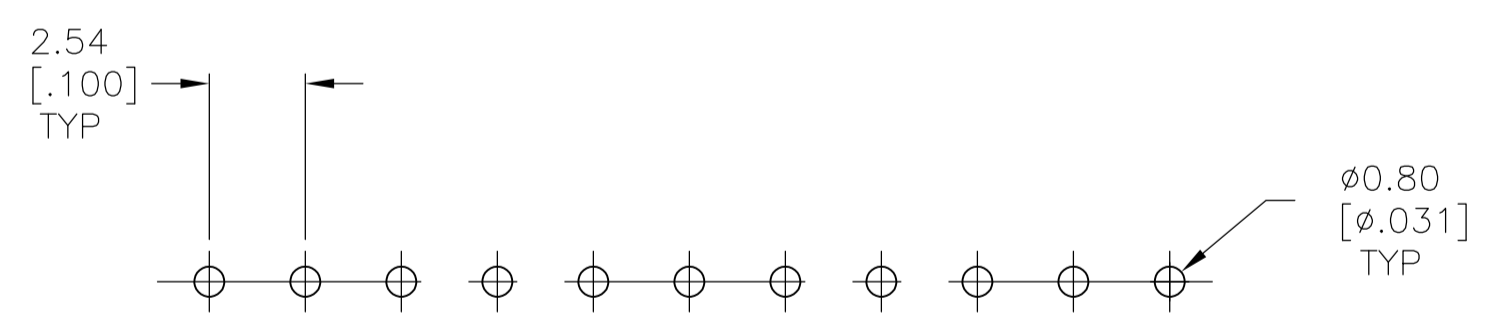


CIRCUIT DIAGRAM



P.C. LAYOUT

SPECIFICATIONS

**MATERIALS:**  
 CASE, PPS UL94V-0, BLACK  
 COVER, PBT UL94V-0, BLACK  
 ACTUATOR, 46 NYLON UL94V-0, WHITE  
 TERMINAL/FIXED CONTACT-COPPER ALLOY- GOLD OVER NICKEL PLATE  
 MOVING CONTACT-COPPER ALLOY- GOLD FLASH OVER NICKEL PLATE

**ELECTRICAL:**  
 RATING- 1a max non-switching  
 0.1µA (1mV) min switching  
 DC 5V 10mA  
 INITIAL CONTACT RESISTANCE- 50milliohm max. (300 milliohms after test)  
 INSULATION RESISTANCE- 100Megohms min. at 100V DC  
 DIELECTRIC STRENGTH- 300V RMS@SEA LEVEL  
 LIFE EXPECTANCY- 1,000 CYCLES

**MECHANICAL:**  
 ACTUATION FORCE- 2.45 +/-1.47N (245 +/-147 GF)  
 TRAVEL- 33°

**ENVIRONMENTAL:**  
 OPERATING TEMPERATURE- -30 TO +85 DEGREES C  
 STORAGE TEMPERATURE- -45 TO +100 DEGREES C  
 RESISTANCE TO SOLDER HEAT- 265 +/-3°C for 8 +/-2 seconds  
 SOLDERABILITY PER JIS-C-0050 & JIS-C-0053

- 1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)
- 2 SWITCH SUPPLIED IN THE "OFF" POSITION AND SHOULD BE SOLDERED IN THE "OFF" POSITION.

|                  |                  |                  |         |             |
|------------------|------------------|------------------|---------|-------------|
| 1, 2, 10 & C     | 25.40<br>(1.000) | 28.60<br>(1.126) | STV10   | 1977104-5   |
| 1, 2, 8, & C     | 20.32<br>(.800)  | 23.52<br>(.926)  | STV08   | 1977104-4   |
| 1, 2, 6 & C      | 15.24<br>(.600)  | 18.44<br>(.726)  | STV06   | 1977104-3   |
| ALL              | 10.16<br>(.400)  | 13.36<br>(.526)  | STV04   | 1977104-2   |
| ALL              | 5.08<br>(.200)   | 8.28<br>(.326)   | STV02   | 1977104-1   |
| KINKED TERMINALS | DIM P            | DIM L            | T&B P/N | PART NUMBER |

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DIN M. BINNER 16MAY07                  |  | Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |  |
| DIMENSIONS: mm [INCHES]                |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | Tyco Electronics  |  |
| 0 PLC ± -                              |  | 1 PLC ± -                              |  | NAME: M. S. SARVER  |  |
| 1 PLC ± -                              |  | 2 PLC ± 0.30[0.012]                    |  | PRODUCT SPEC  |  |
| 2 PLC ± -                              |  | 3 PLC ± -                              |  | APPLICATION SPEC  |  |
| 3 PLC ± -                              |  | 4 PLC ± -                              |  | SIZE: A1  |  |
| 4 PLC ± -                              |  | ANGLES ± -                             |  | CAGE CODE: 00779  |  |
| MATERIAL: SEE SPECIFICATIONS           |  | FINISH: -                              |  | DRAWING NO: 1977104                                       |  |
|  |  | WEIGHT: -                              |  | RESTRICTED TO: -  |  |
|  |  | CUSTOMER DRAWING                       |  | SCALE: 5:1 SHEET: 1 OF 1 REV: B                           |  |