

|     |      |           |     |                           |           |     |      |
|-----|------|-----------|-----|---------------------------|-----------|-----|------|
| LOC | DIST | REVISIONS |     |                           |           |     |      |
| AD  | 00   | P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|     |      |           | A6  | REVISED PER ECO-14-016841 | 07NOV2014 | NK  | RH   |

| MATERIALS |                           |                            |            |
|-----------|---------------------------|----------------------------|------------|
| NO        | COMPONENT NAME            | BASE MATERIAL              | FINISH     |
| 1         | HOUSING                   | DIALLYL PHTHALATE RESIN    |            |
| 2         | END TERMINAL              | SILVER CLAD COPPER ALLOY   | GOLD FLASH |
| 3         | CENTER TERMINAL           | COPPER ALLOY               | GOLD FLASH |
| 4         | ROCKER CONTACT            | SILVER CLAD COPPER ALLOY   | GOLD FLASH |
| 5         | ACTUATOR TIP              | PHENOL RESIN, UL94 HB      |            |
| 6         | ACTUATOR SPRING           | MUSIC WIRE                 |            |
| 7         | ACTUATOR                  | PHENOL RESIN, UL94 HB      |            |
| 8         | ACTUATOR GUIDE            | POLYAMID                   |            |
| 9         | FRAME                     | STAINLESS STEEL PER 100-77 |            |
| 10        | RETAINER/STOPPER          | BRASS                      | NONE       |
| 11        | PLUNGER SPRING            | MUSIC WIRE                 |            |
| 12        | PLUNGER PIN               | BRASS                      |            |
| 13        | BUSHING                   | ZINC                       | NICKEL     |
| 14        | PLUNGER                   | BRASS                      | NICKEL     |
| 15        | MOUNTING NUTS (1)         | BRASS                      | NICKEL     |
|           |                           |                            |            |
| 17        | INTERNAL TOOTL LOCKWASHER | STEEL                      | NICKEL     |
| 18        | STEM O-RING               |                            |            |
| 19        | BUSHING O-RING            |                            |            |

| SPECIFICATIONS — SEE NOTE 3 |                                |                   |           |
|-----------------------------|--------------------------------|-------------------|-----------|
| CURRENT RATING UL & CSA     | 6A @ 125 VAC (RESISTIVE)       |                   |           |
|                             | 3A @ 250 VAC (RESISTIVE)       |                   |           |
|                             | 4A @ 28 VDC (RESISTIVE)        |                   |           |
| INITIAL CONTACT RESISTANCE  | 10 MILLIOHMS MAX @ 2–4 VDC, 1A |                   |           |
| DIELECTRIC STRENGTH         | 1,500 MEGOHMS MIN.             |                   |           |
| WITHSTANDING VOLTAGE        | 1,000 VAC                      |                   |           |
| TRAVEL                      | .140                           |                   |           |
| ACTUATION FORCE             | .4 to 2 kgf                    |                   |           |
| OPERATING TEMPERATURE       | –20C TO +85C                   |                   |           |
| STORAGE TEMPERATURE         | –40C TO +85C                   |                   |           |
| CONTACT TIMING              | BREAK BEFORE MAKE              |                   |           |
| TERMINAL SEAL               | OVER MOLDED                    |                   |           |
|                             |                                |                   |           |
| DURABILITY                  | PARAMETER                      | PUSH ON/ PUSH OFF | MOMENTARY |
|                             |                                |                   |           |
|                             | 250 VAC (3A RESISTIVE)         | 50,000            | 50,000    |
|                             | 125 VAC (6A RESISTIVE)         | 50,000            | 50,000    |
|                             | 28 VDC (4A RESISTIVE)          | 50,000            | 50,000    |

1. TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE SWITCHES
2. EACH SWITCH SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
  - (1) 1/4-40 UNS-2B HEX NUT
  - (1) LOCK WASHER
  - (1) BUSHING 'O' RING

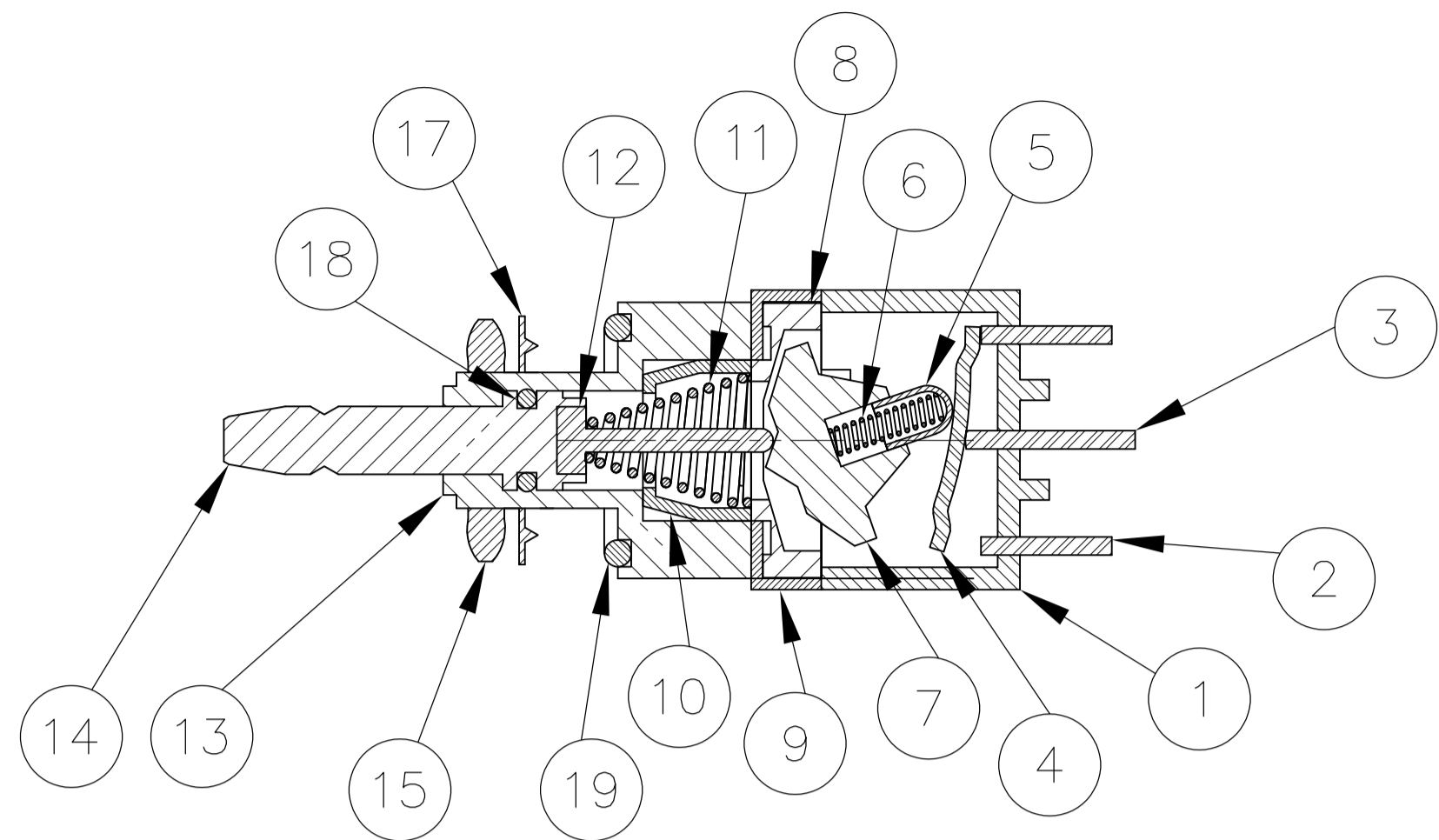
5 WIRE LUG CONTACTS WILL ACCEPT 2 #20 AWG SOLID OR STRANDED WIRES

6 MARK SWITCH

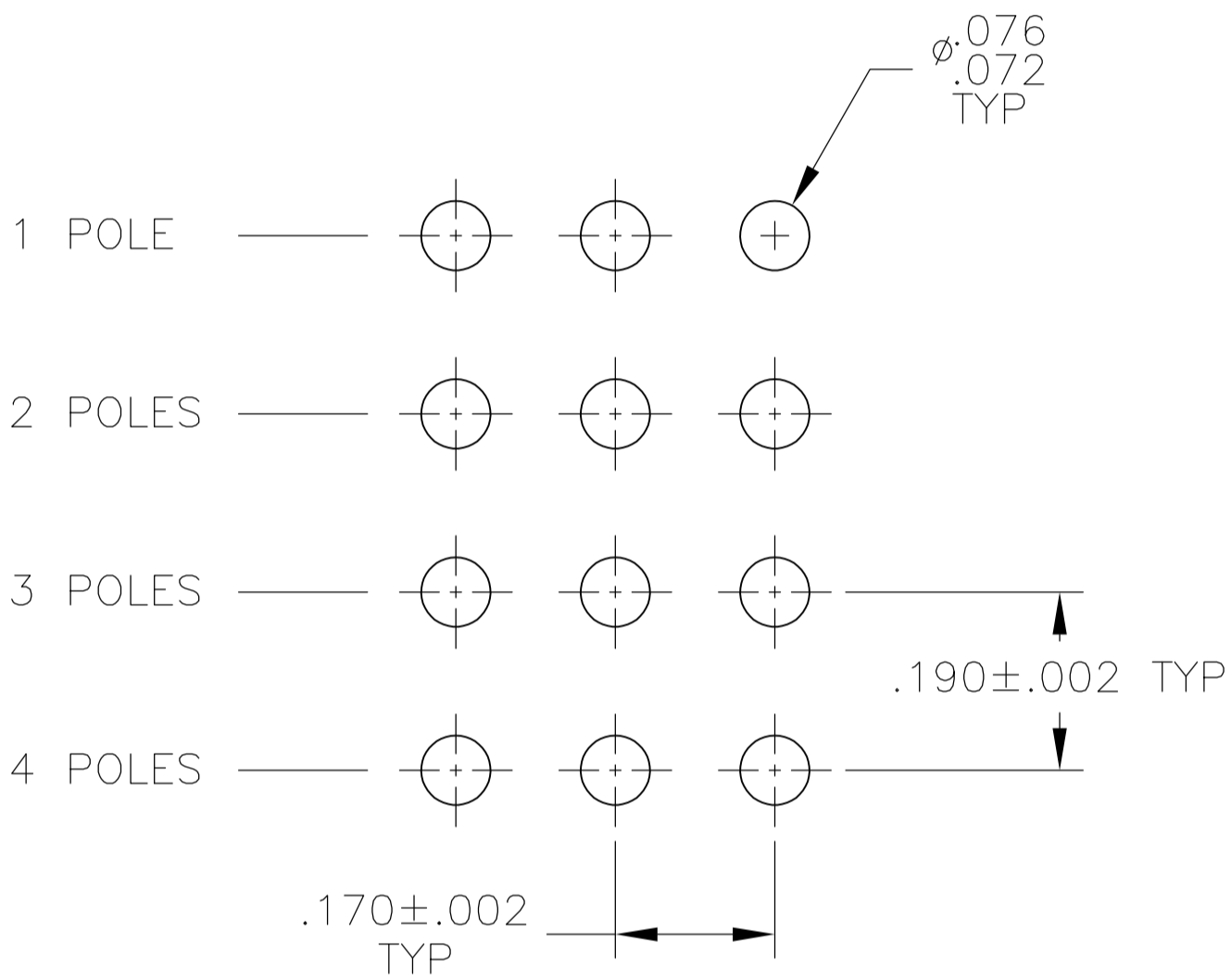
7 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)

 PUSHBUTTON CAP SOLD SEPARATELY. SEE DRAWING 1825068 AND 1825069 FOR AVAILABLE CAPS

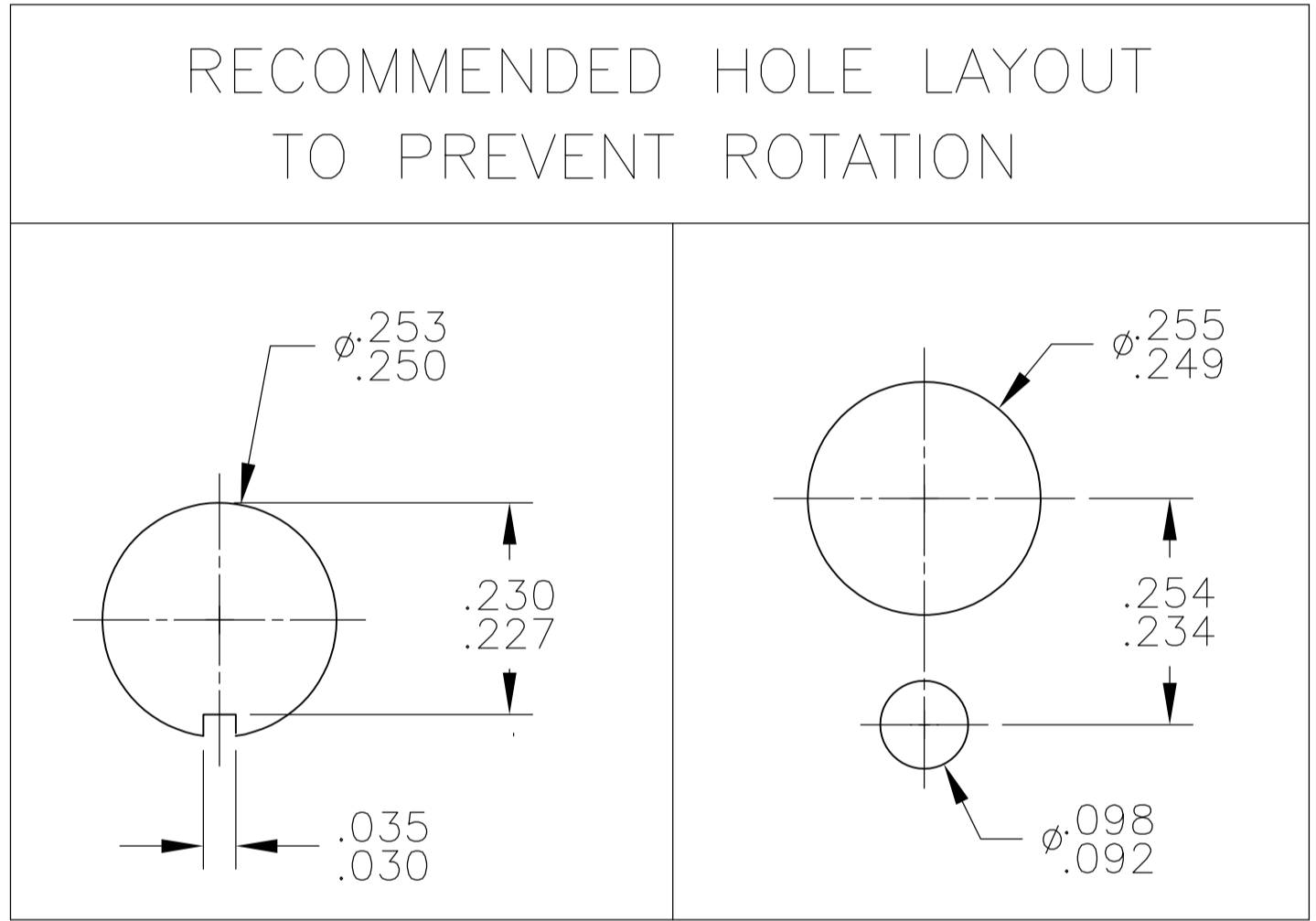
9 LASER MARKING USED FOR PARTS


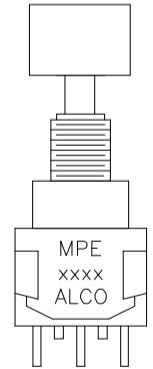
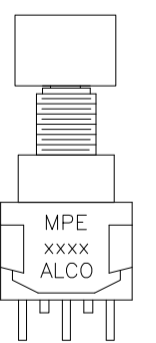
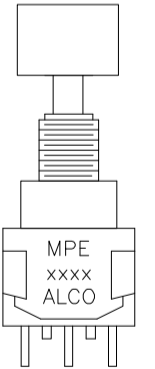
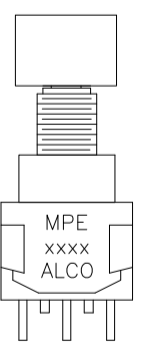



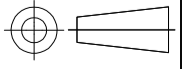
NOT TO SCALE



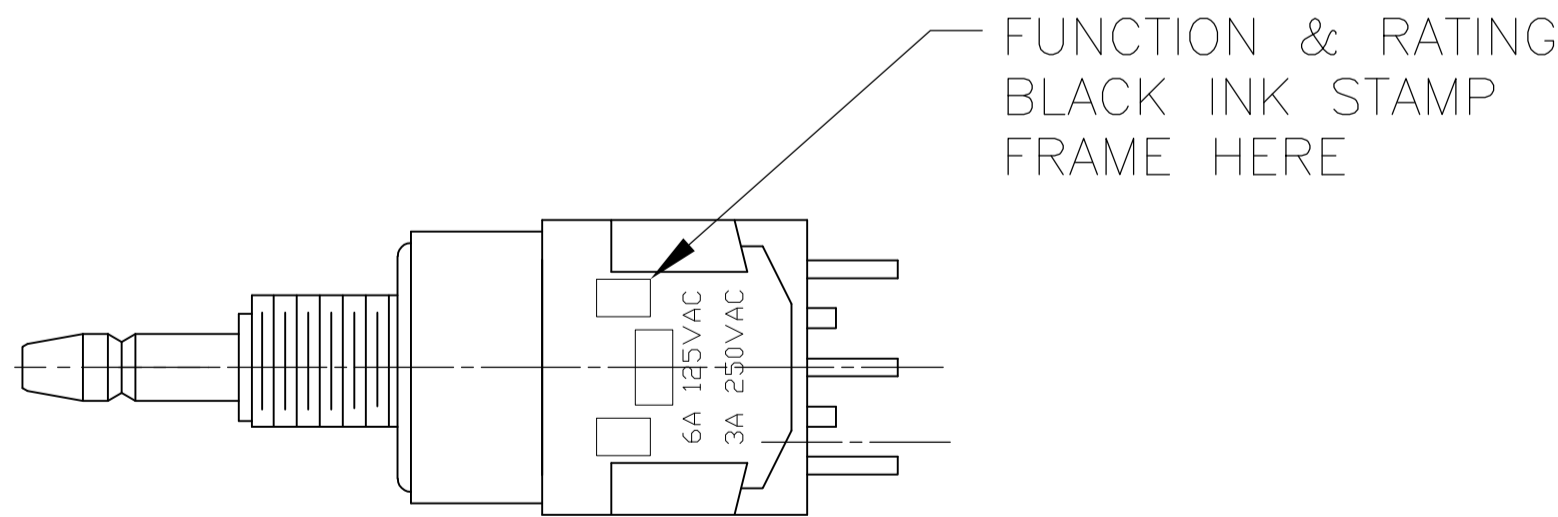
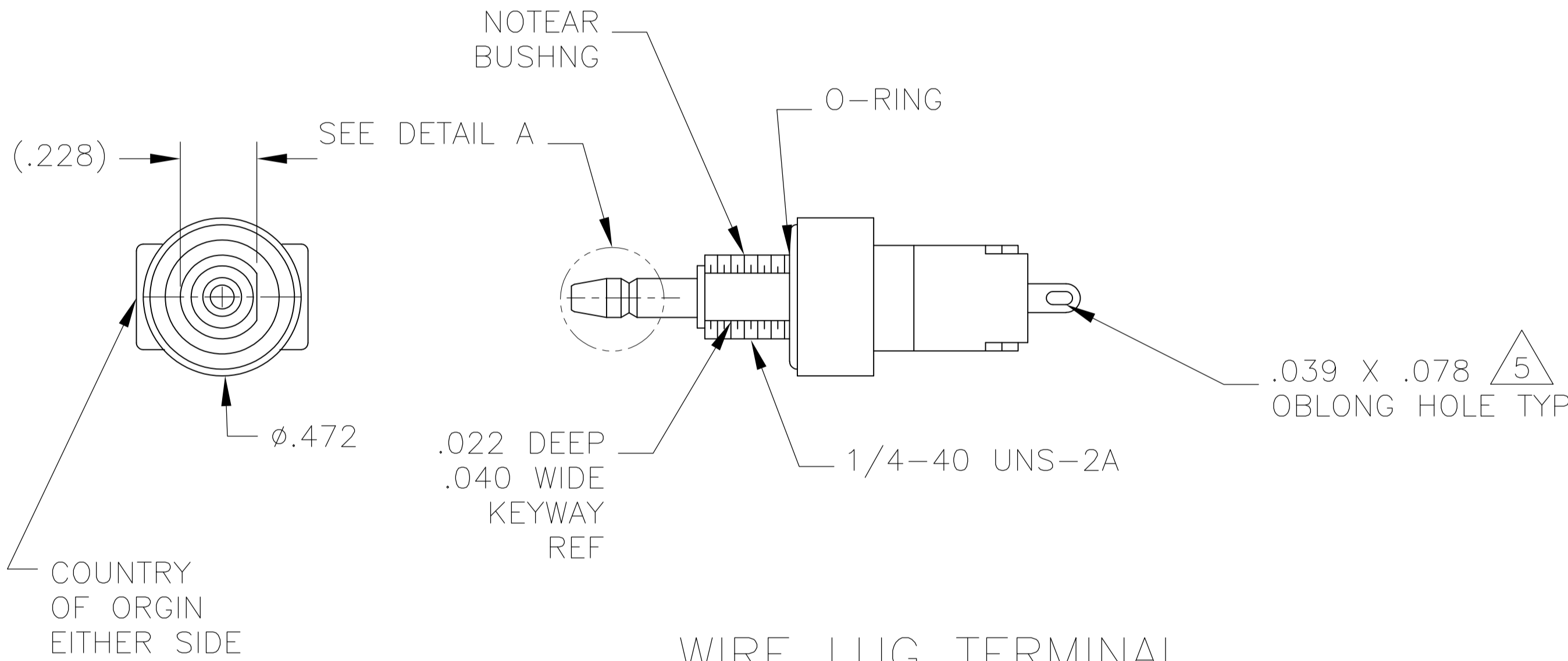
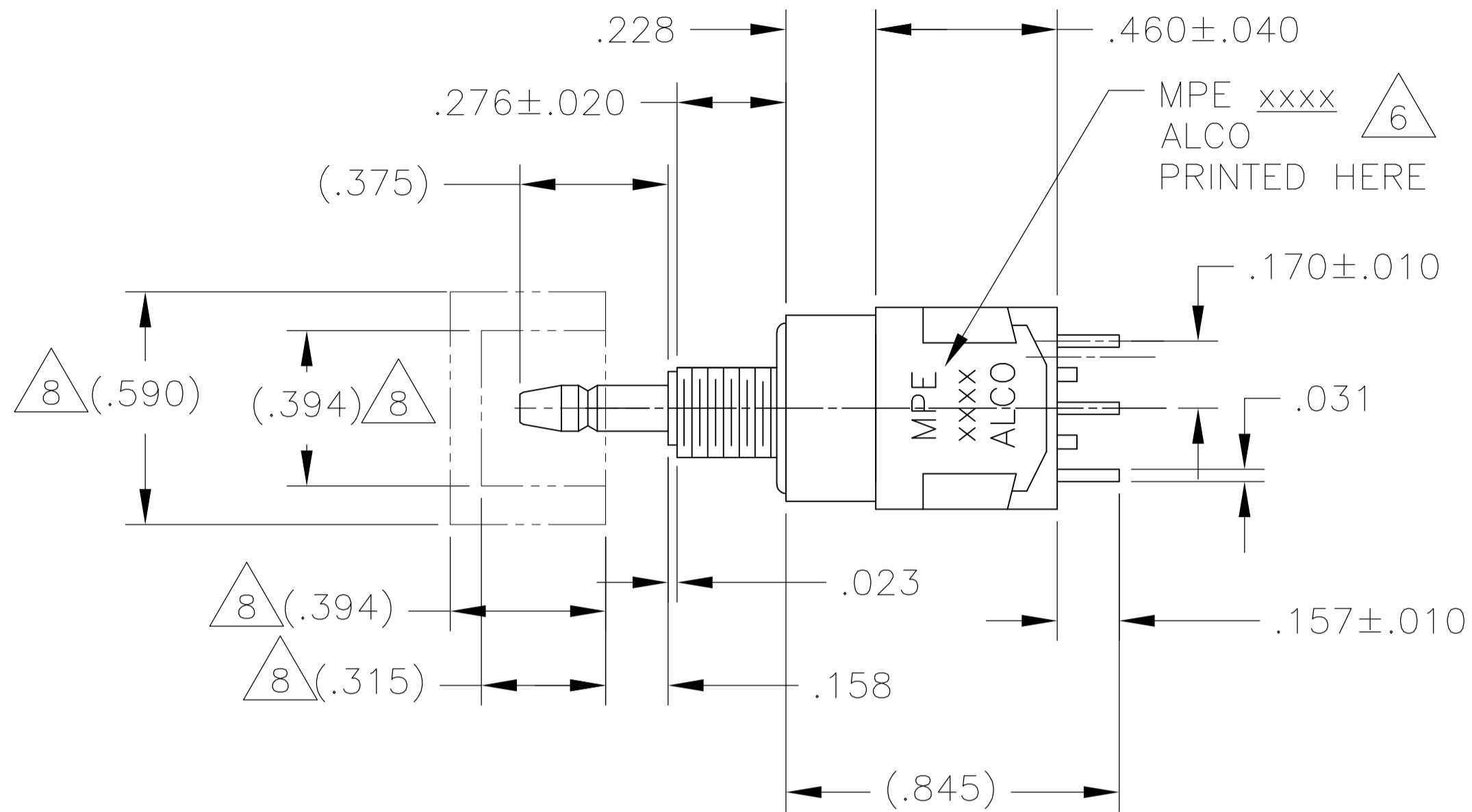
PC BOARD LAYOUT  
PC TERMINALS ONLY



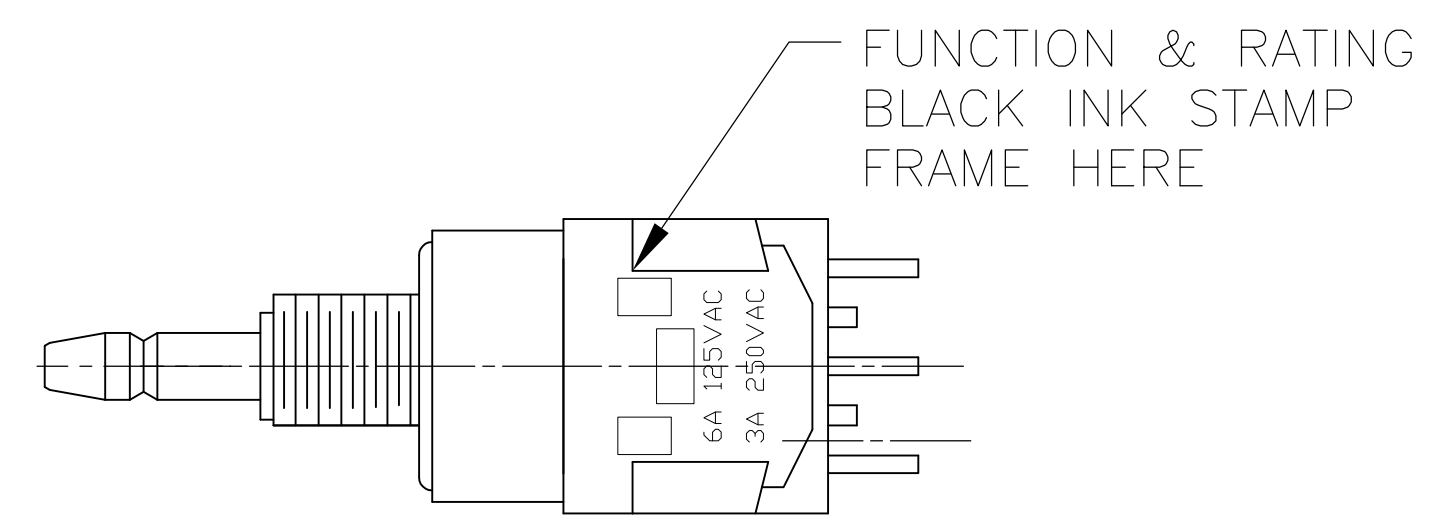
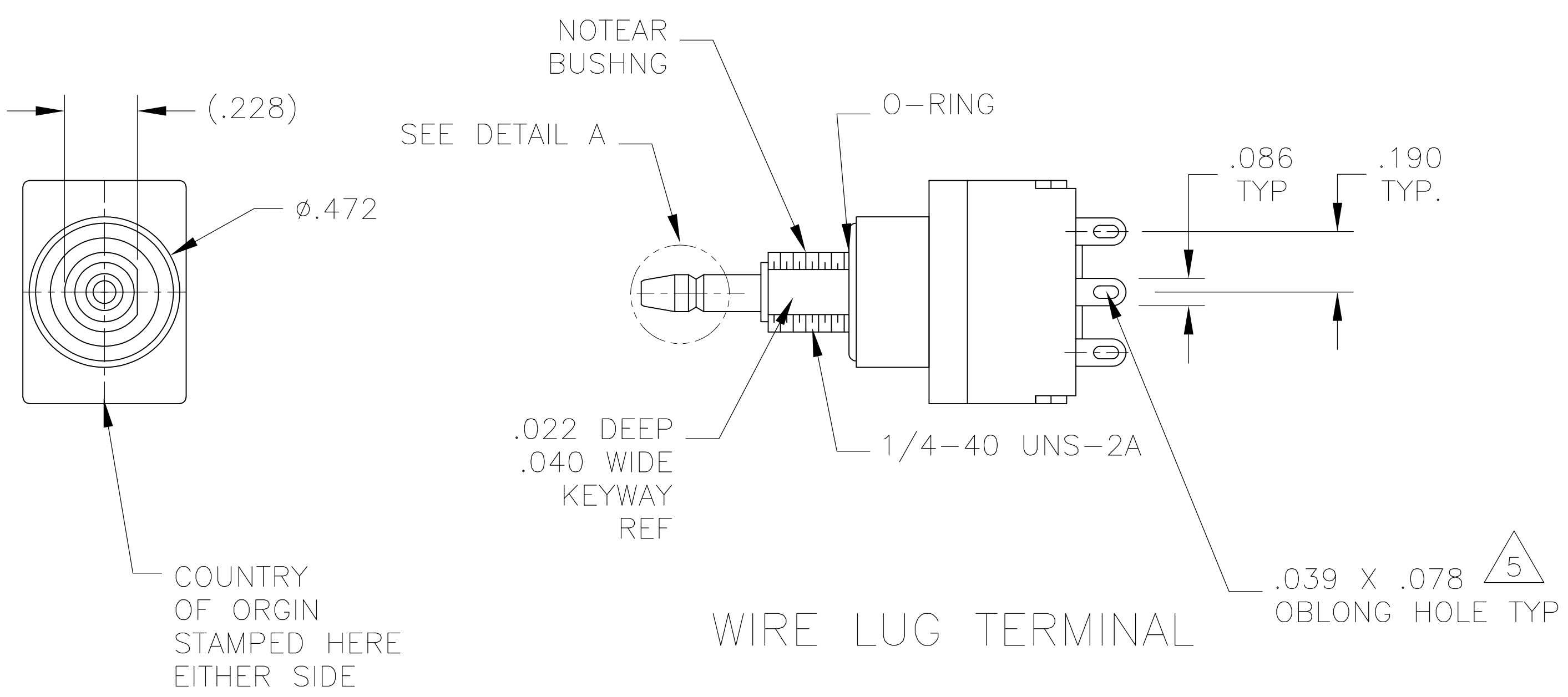
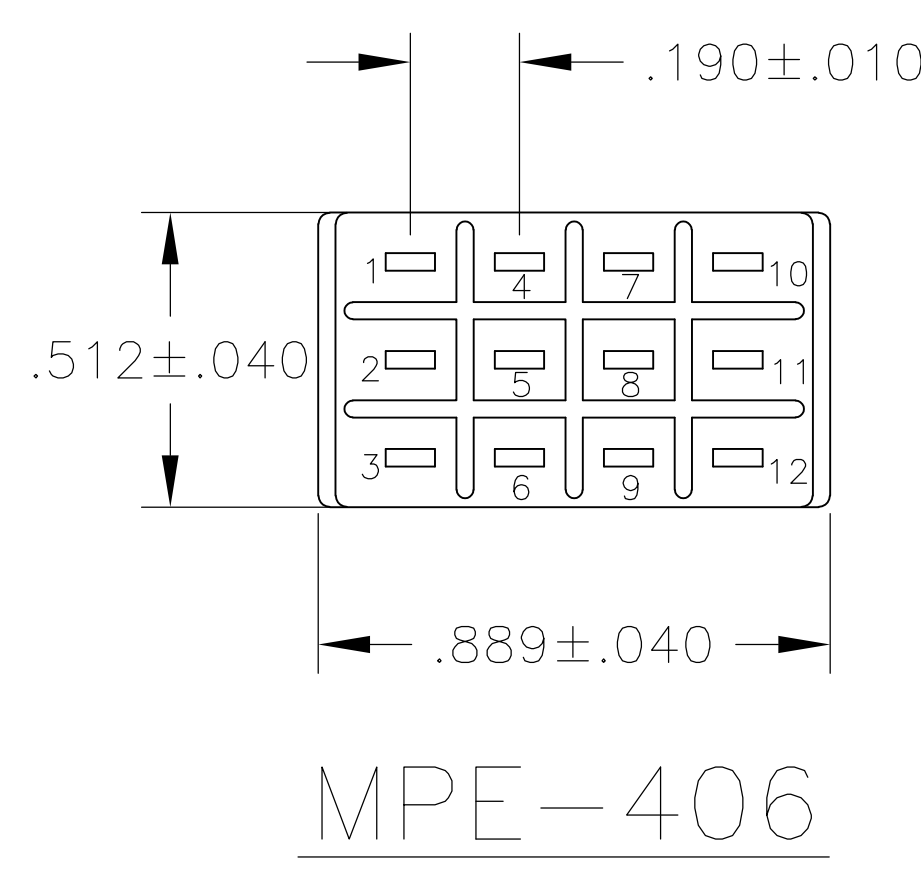
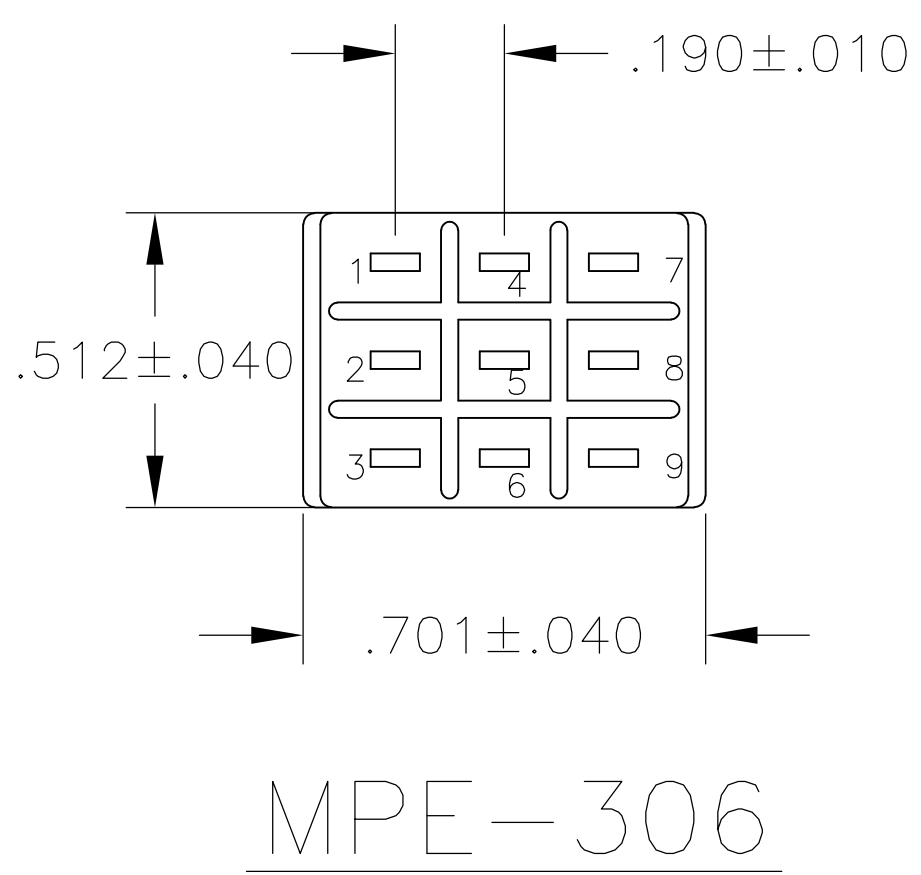
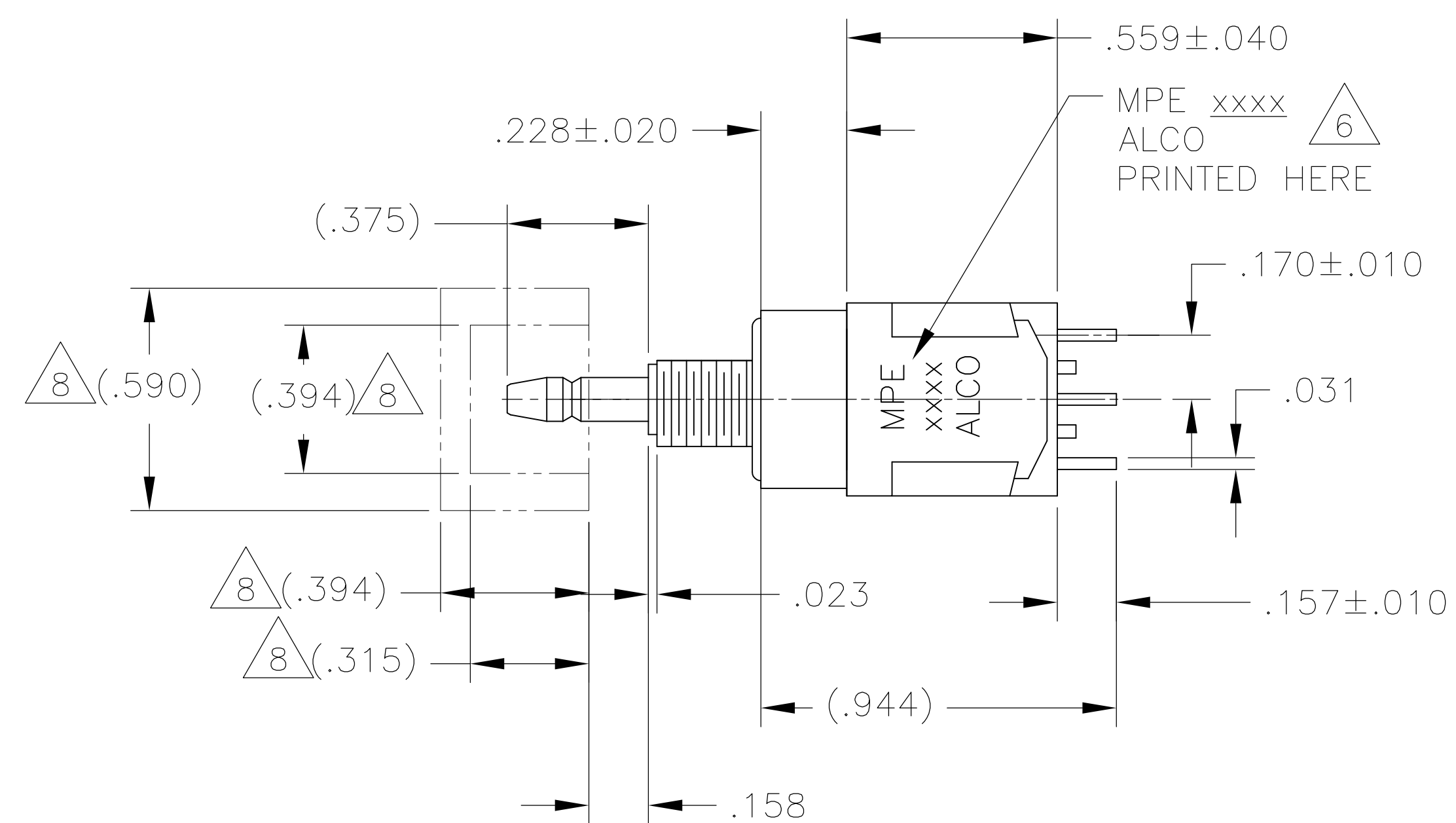
| PART NUMBER | Alco P/N | Mark Switch<br> | Poles | Throws | Terminal | Function  |   | Connected Terminals   |   |
|-------------|----------|--|-------|--------|----------|---|---|---|---|
|             |          |  |       |        |          |  |  |  |  |
| 4-1437567-8 | MPE406R  | MPE 406R   | 4     | 2      | Wire lug | ON  | MOM   | 2-1, 5-4, 8-7, 11-10  | 2-3, 5-6, 8-9, 11-12  |
| 4-1437567-7 | MPE406N  | MPE 406N   | 4     | 2      | Wire lug | ON  | ON  | 2-1, 5-4, 8-7, 11-10  | 2-3, 5-6, 8-9, 11-12  |
| 4-1437567-6 | MPE306F  | MPE 306F   | 3     | 2      | Wire lug | ON  | MOM   | 2-1, 5-4, 8-7   | 2-3, 5-6, 8-9   |
| 4-1437567-5 | MPE206R  | MPE 206R   | 2     | 2      | Wire lug | ON  | MOM   | 2-1, 5-4  | 2-3, 5-6  |
| 4-1437567-4 | MPE206N  | MPE 206N   | 2     | 2      | Wire lug | ON  | ON  | 2-1, 5-4  | 2-3, 5-6  |
| 4-1437567-3 | MPE106F  | MPE 106F   | 1     | 2      | Wire lug | ON  | MOM   | 2-1   | 2-3   |
| 4-1437567-2 | MPE106D  | MPE 106D   | 1     | 2      | Wire lug | ON  | ON  | 2-1   | 2-3   |

|   |  |   |          |   |  |
|---|--|---|----------|---|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.  |  | OWN<br>M.BINNER                         | 15NOVD04 |  TE Connectivity |  |
|   |  | CHK<br>M.ZITTO                          | 15NOVD04 |   |  |
| DIMENSIONS:<br>INCHES   |  | TOLERANCES, UNLESS OTHERWISE SPECIFIED: |          | NAME<br>ALCOSWITCH GREEN SERIES PUSHBUTTON SWITCH, MPE SERIES   |  |
|  |  | 0 PLC ± .                               |          | APVD<br>M.ZITTO 15NOVD04  |  |
|   |  | 1 PLC ± .                               |          | PRODUCT SPEC  |  |
|   |  | 2 PLC ± .                               |          | APPLICATION SPEC  |  |
|   |  | 3 PLC ± .012                            |          |   |  |
| MATERIAL<br>—   |  | FINISH<br>—                             |          | SIZE<br>A1  |  |
|   |  |   |          | CAGE CODE<br>00779  |  |
|   |  |   |          | DRAWING NO<br>C=4-1437567-3   |  |
|   |  |   |          | RESTRICTED TO<br>—  |  |
|   |  |   |          | SCALE<br>3:1  |  |
|   |  |   |          | SHEET<br>1 OF 3   |  |
|   |  |   |          | REV<br>A0   |  |

| LOC | DIST | REVISIONS |     |             |      |     |
|-----|------|-----------|-----|-------------|------|-----|
| AD  | 00   | REV       | LTR | DESCRIPTION | DATE | OWN |
|     |      |           |     | SEE SHEET 1 |      |     |



|  |  |                               |   |
|--|--|-------------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT.   |  | DWN<br>M. BINNER<br>15NOV04   | TE Connectivity   |
| DIMENSIONS: INCHES   |  | CHK<br>M. ZITTO<br>15NOV04    |   |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:   |  | APPROD<br>M. ZITTO<br>15NOV04 | NAME<br>ALCOSWITCH GREEN SERIES PUSHBUTTON SWITCH, MPE SERIES |
| 0. PLC ± .012<br>1. PLC ± .012<br>2. PLC ± .012<br>3. PLC ± .012<br>4. PLC ± .012<br>ANGLES ± .012 |  | PRODUCT SPEC                  |   |
| MATERIAL   |  | APPLICATION SPEC              | SIZE<br>A1  |
| FINISH   |  | WEIGHT                        | CAGE CODE<br>4-1437567-3                                      |
| CUSTOMER DRAWING   |  | SCALE<br>3:1                  | SHEET<br>2 OF 3   |
|  |  | REV<br>A6                     | RESTRICTED TO   |



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