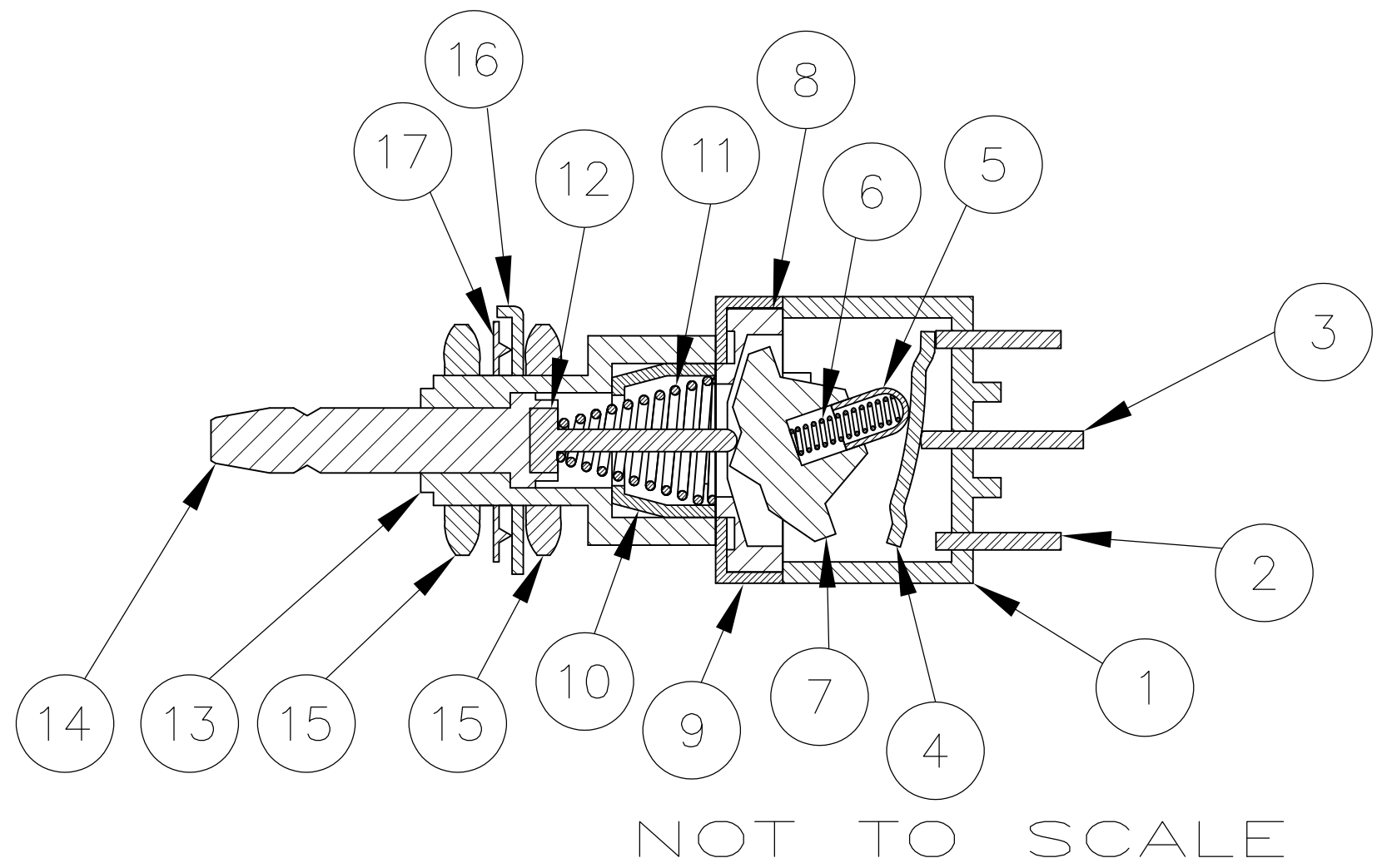


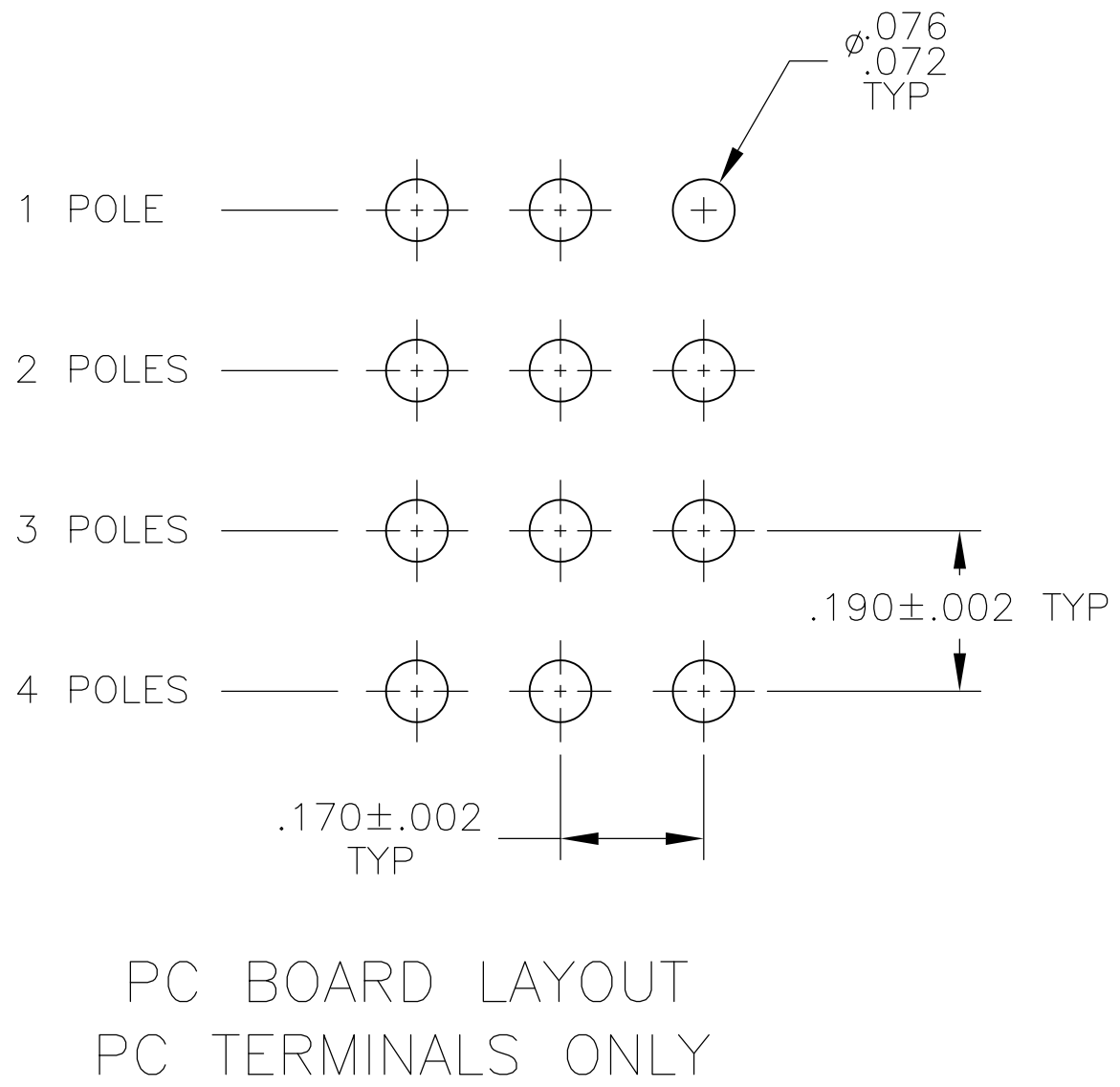
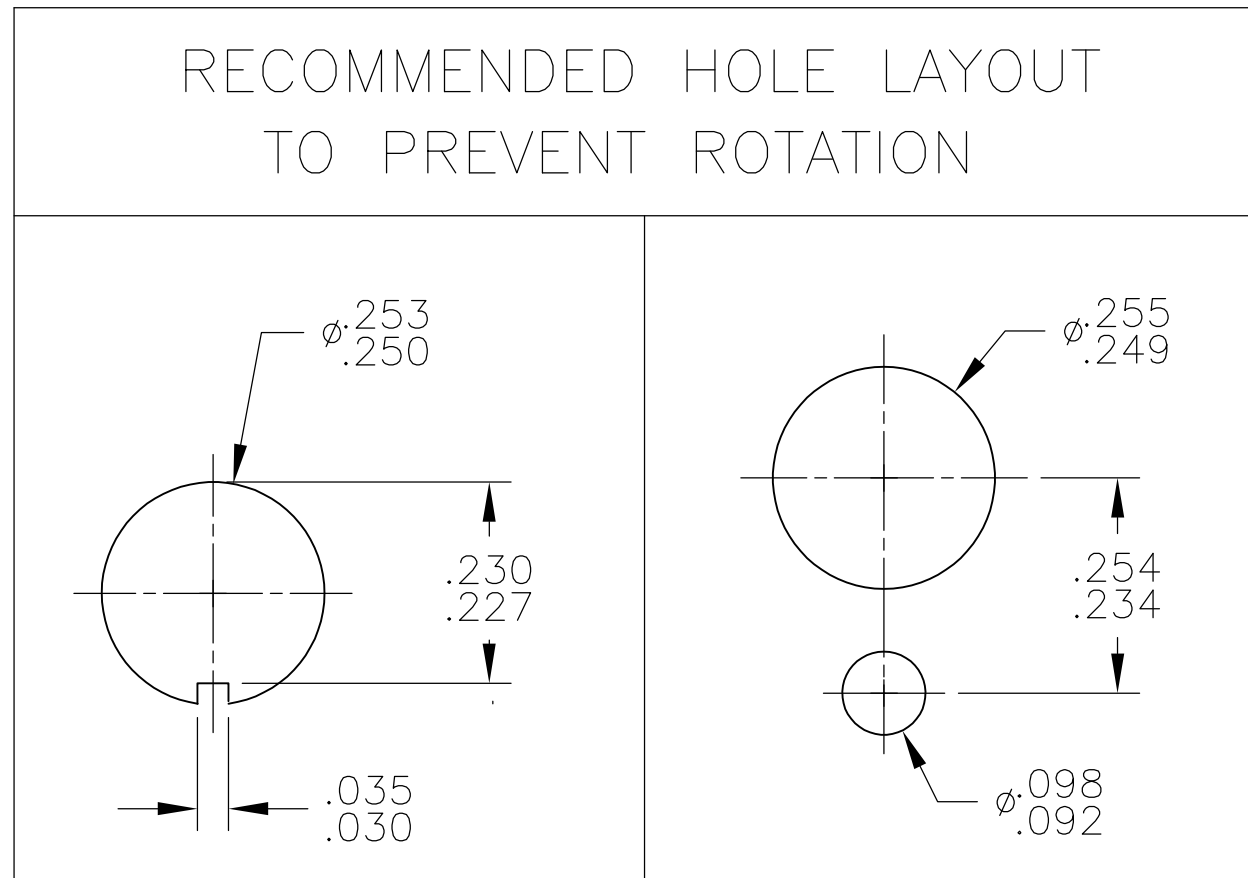
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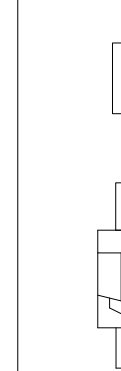
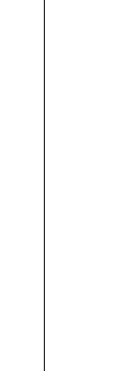
|     |  |      |  |           |     |                           |           |     |      |
|-----|--|------|--|-----------|-----|---------------------------|-----------|-----|------|
| LOC |  | DIST |  | REVISIONS |     |                           |           |     |      |
| AD  |  | 00   |  | P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|     |  |      |  |           | A4  | REVISED PER ECO-14-010935 | 18JUL2014 | NK  | RH   |

| Materials |                           |                          |            |
|-----------|---------------------------|--------------------------|------------|
| No        | Component name            | Base material            | Plating    |
| 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 resin           |            |
| 9         | Frame                     | cold rolled steel        | zinc       |
| 10        | Retainer                  | brass                    | none       |
| 11        | Plunger spring            | music wire               |            |
| 12        | Plunger pin               | brass                    |            |
| 13        | Bushing                   | zinc                     | nickel     |
| 14        | Plunger                   | brass                    | nickel     |
| 15        | Mounting nuts (2)         | brass                    | nickel     |
| 16        | Locating ring             | cold rolled steel        | nickel     |
| 17        | Internal tooth lockwasher | steel                    | nickel     |



| Specifications-see note 3          |                                |                          |                  |
|------------------------------------|--------------------------------|--------------------------|------------------|
| <b>Current rating UL &amp; CSA</b> | 6A @ 125 VAC (resistive)       |                          |                  |
|                                    | 3A @ 250 VAC (resistive)       |                          |                  |
|                                    | 4A @ 28 VDC (resistive)        |                          |                  |
| <b>Initial contact resistance</b>  | 10 milliohms max @ 2-4 VDC, 1A |                          |                  |
| <b>Insulation resistance</b>       | 1,000 megohms min.             |                          |                  |
| <b>Dielectric strength</b>         | 1,500 VAC                      |                          |                  |
| <b>Travel</b>                      | .140                           |                          |                  |
| <b>Actuation force</b>             | .4 to 2 kgf                    |                          |                  |
| <b>Operating temperature</b>       | -20C to +85C                   |                          |                  |
| <b>Storage temperature</b>         | -40C to +85C                   |                          |                  |
| <b>Contact timing</b>              | break before make              |                          |                  |
| <b>Terminal seal</b>               | over molded                    |                          |                  |
|                                    |                                |                          |                  |
| <b>Durability</b>                  | <b>Parameter</b>               | <b>Push on/ Push off</b> | <b>Momentary</b> |
|                                    | 250 VAC (3A resistive)         | 50,000                   | 50,000           |
|                                    | 125 VAC (6A resistive)         | 50,000                   | 50,000           |
|                                    | 28 VDC (4A resistive)          | 50,000                   | 50,000           |



| PART NUMBER | Alco P/N  | Mark Switch<br> | Poles | Throws | Terminal | Function                                                                              |                                                                                       | Connected Terminals                                                                                                          |                                                                                                                              |
|-------------|-----------|------------------------------------------------------------------------------------------------------|-------|--------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|             |           |                                                                                                      |       |        |          |  |  | <br>3 2 1<br>6 5 4<br>9 8 7<br>12 11 10 | <br>3 2 1<br>6 5 4<br>9 8 7<br>12 11 10 |
| 3-1437567-8 | MPA406R   | MPA406R                                                                                              | 4     | 2      | Wire lug | ON                                                                                    | MOM                                                                                   | 2-1, 5-4, 8-7, 11-10                                                                                                         | 2-3, 5-6, 8-9, 11-12                                                                                                         |
| 3-1437567-7 | MPA406N   | MPA406N                                                                                              | 4     | 2      | Wire lug | ON                                                                                    | ON                                                                                    | 2-1, 5-4, 8-7, 11-10                                                                                                         | 2-3, 5-6, 8-9, 11-12                                                                                                         |
| 3-1437567-6 | MPA306F   | MPA306F                                                                                              | 3     | 2      | Wire lug | ON                                                                                    | MOM                                                                                   | 2-1, 5-4, 8-7                                                                                                                | 2-3, 5-6, 8-9                                                                                                                |
| 3-1437567-5 | MPA306D   | MPA306D                                                                                              | 3     | 2      | Wire lug | ON                                                                                    | ON                                                                                    | 2-1, 5-4, 8-7                                                                                                                | 2-3, 5-6, 8-9                                                                                                                |
| 3-1437567-4 | MPA206RPC | MPA206RPC                                                                                            | 2     | 2      | PC       | ON                                                                                    | MOM                                                                                   | 2-1, 5-4                                                                                                                     | 2-3, 5-6                                                                                                                     |
| 3-1437567-3 | MPA206R   | MPA206R                                                                                              | 2     | 2      | Wire lug | ON                                                                                    | MOM                                                                                   | 2-1, 5-4                                                                                                                     | 2-3, 5-6                                                                                                                     |
| 3-1437567-2 | MPA206NPC | MPA206NPC                                                                                            | 2     | 2      | PC       | ON                                                                                    | ON                                                                                    | 2-1, 5-4                                                                                                                     | 2-3, 5-6                                                                                                                     |
| 3-1437567-1 | MPA206N   | MPA206N                                                                                              | 2     | 2      | Wire lug | ON                                                                                    | ON                                                                                    | 2-1, 5-4                                                                                                                     | 2-3, 5-6                                                                                                                     |
| 3-1437567-0 | MPA106FPC | MPA106FPC                                                                                            | 1     | 2      | PC       | ON                                                                                    | MOM                                                                                   | 2-1                                                                                                                          | 2-3                                                                                                                          |
| 2-1437567-9 | MPA106F   | MPA106F                                                                                              | 1     | 2      | Wire lug | ON                                                                                    | MOM                                                                                   | 2-1                                                                                                                          | 2-3                                                                                                                          |
| 2-1437567-8 | MPA106D   | MPA106D                                                                                              | 1     | 2      | Wire lug | ON                                                                                    | ON                                                                                    | 2-1                                                                                                                          | 2-3                                                                                                                          |

NOTES:

1. TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE SWITCHES.
2. EACH SWITCH SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
  - (2) 1/4-40 UNS-2B HEX NUTS
  - (1) INTERNAL TOOTH LOCKWASHER
  - (1) LOCATING RING



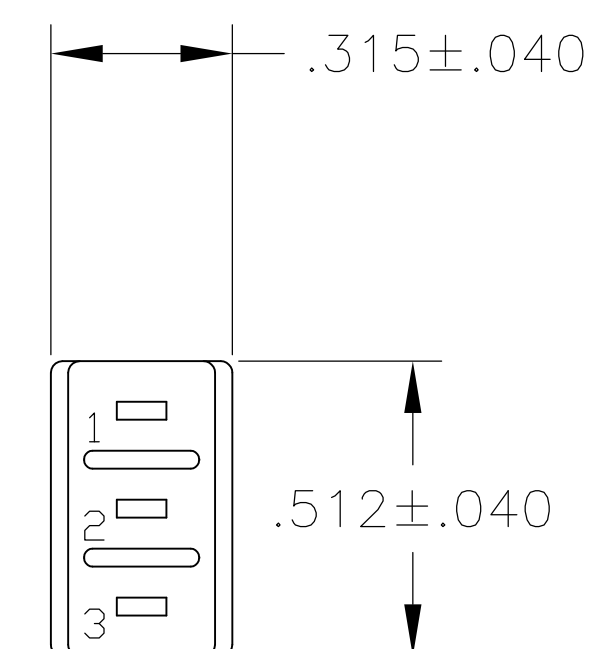
WIRE LUG CONTACTS WILL ACCEPT 2 #20 AWG SOLID OR STRANDED WIRES.



MARK SWITCH

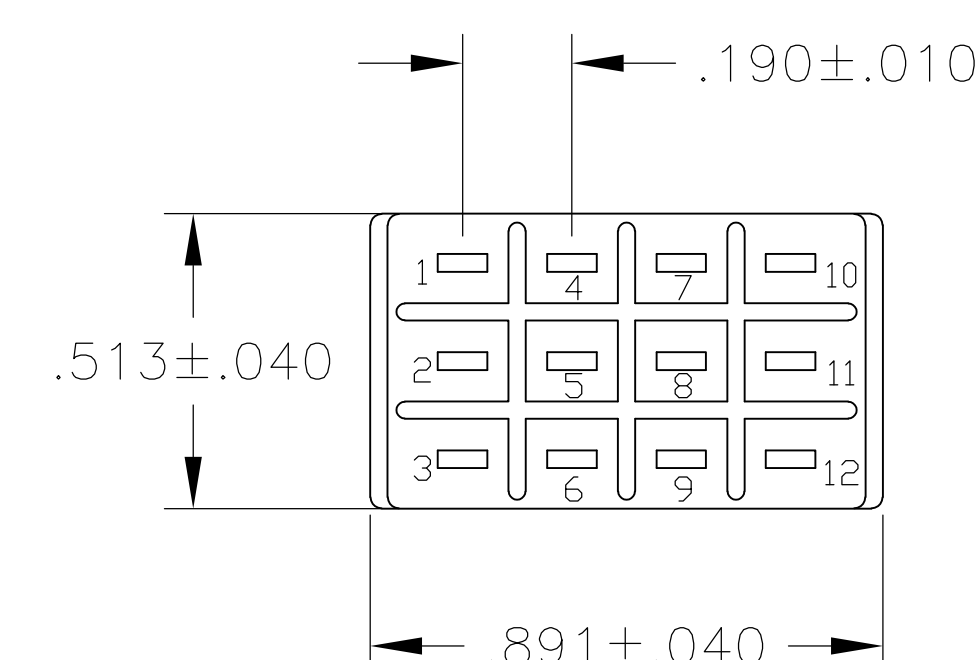
7. ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
8. SWITCH DOES NOT INCLUDE BUTTON CAP. DIMENSIONS SHOWN DESCRIBE ALCOSWITCH CAP C22\* AND C23\* FOUND ON DRAWINGS 1825068 & 1825069 AND SOLD SEPARATELY.
9. LASER MARKING USED FOR PARTS.

|                                                                                       |  |                                                                                            |  |                                            |  |
|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|--------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | OWN<br>M.BINNER                                                                            |  | 02MAR09                                    |  |
|                                                                                       |  | CHK<br>M.ZITTO                                                                             |  | 15NOV04                                    |  |
| DIMENSIONS:<br>INCHES                                                                 |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                  |  | NAME                                       |  |
|  |  | APPRO<br>M.ZITTO                                                                           |  | ALCOSWITCH GREEN SERIES PUSHBUTTON SWITCH, |  |
|                                                                                       |  | PRODUCT SPEC                                                                               |  | MPA SERIES                                 |  |
|                                                                                       |  | APPLICATION SPEC                                                                           |  | —                                          |  |
|                                                                                       |  |                                                                                            |  |                                            |  |
|  |  | 0 PLC ± —<br>1 PLC ± —<br>2 PLC ± —<br>3 PLC ± .012<br>4 PLC ± —<br>ANGLES ± —<br>FINISH — |  | SIZE<br>A1                                 |  |
| MATERIAL<br>—                                                                         |  | WEIGHT<br>—                                                                                |  | CAGE CODE<br>00779                         |  |
|                                                                                       |  | CUSTOMER DRAWING                                                                           |  | DRAWING NO<br>2-1437567-9                  |  |
|                                                                                       |  |                                                                                            |  | RESTRICTED TO<br>—                         |  |
|                                                                                       |  |                                                                                            |  | SCALE<br>3:1                               |  |
|                                                                                       |  |                                                                                            |  | SHEET<br>1 of 3                            |  |
|                                                                                       |  |                                                                                            |  | REV A                                      |  |

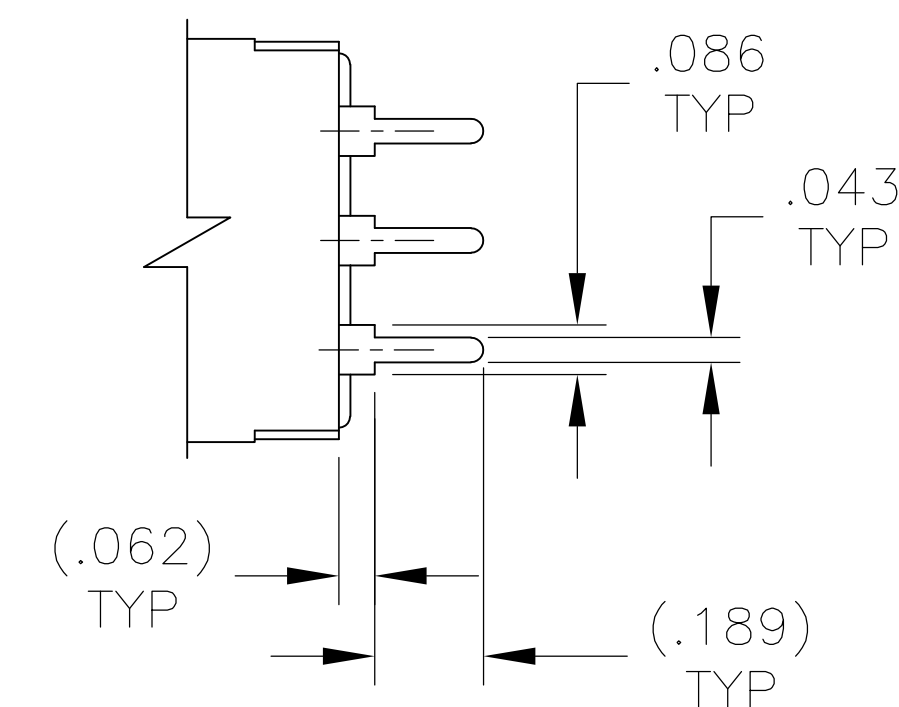


Technical drawing of a 2x2 grid of rectangular cells. The overall width is dimensioned as  $.512 \pm .040$  and the overall height as  $.190 \pm .010$ . The grid is divided into four quadrants, each containing a small rectangular feature. The quadrants are numbered 1, 2, 3, and 4 in the top-left, bottom-left, bottom-right, and top-right positions respectively. The drawing includes dimension lines and arrows indicating the specified measurements.

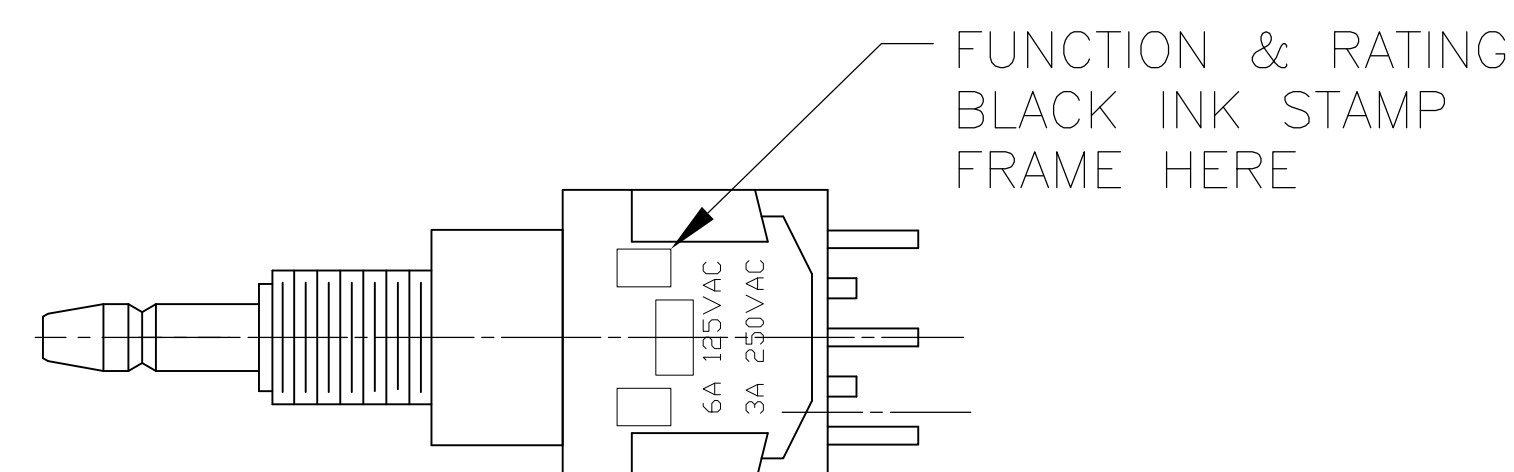
PC TERMINAL



MPA-406



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