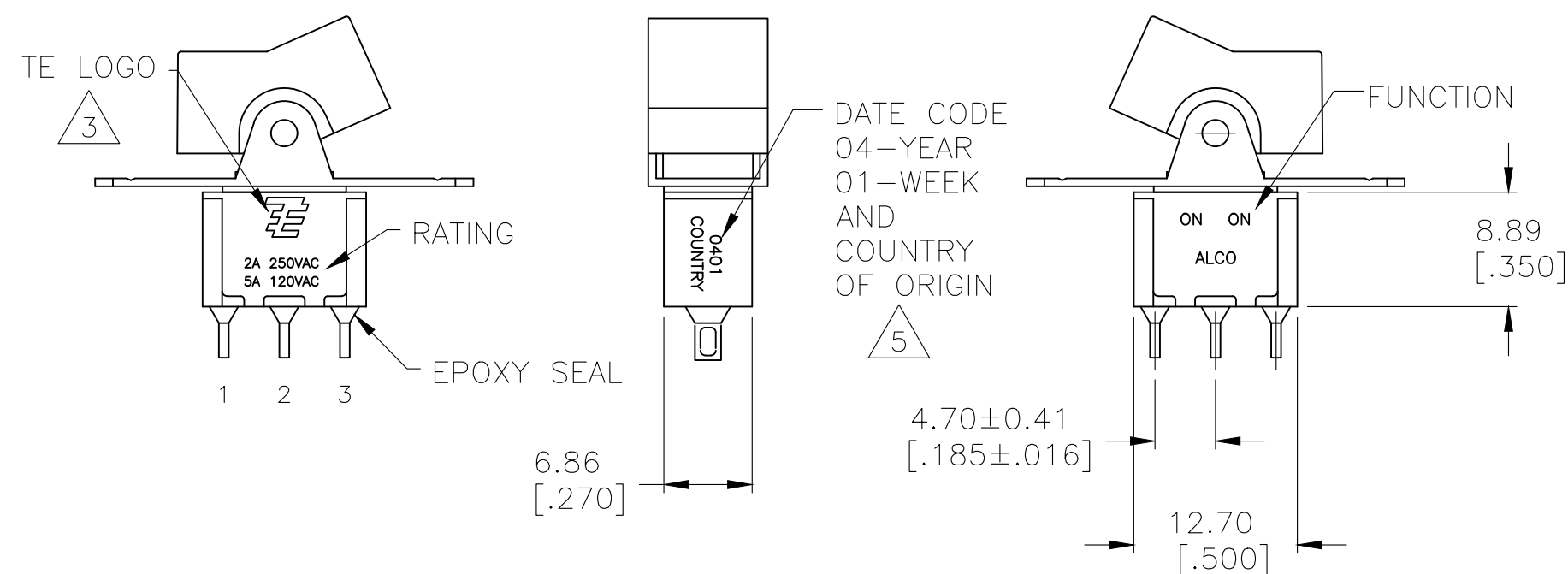
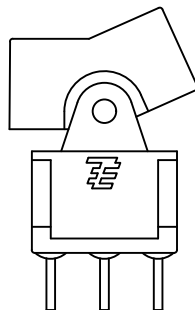
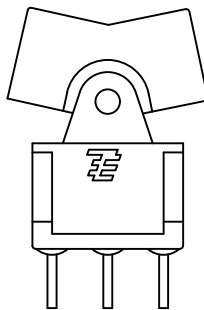
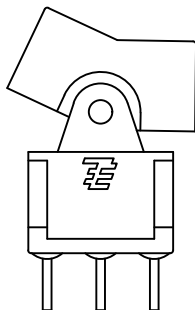
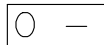
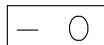
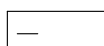




| FUNCTION CHART      |                                                                                    |                                                                                    |                                                                                      |
|---------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| FUNCTION            |  |  |  |
|                     | 1 2 3                                                                              | 1 2 3                                                                              | 1 2 3                                                                                |
| 01                  | ON                                                                                 | NONE                                                                               | ON                                                                                   |
| 03                  | ON                                                                                 | OFF                                                                                | ON                                                                                   |
| 05                  | (ON)                                                                               | OFF                                                                                | (ON)                                                                                 |
| 07                  | ON                                                                                 | OFF                                                                                | (ON)                                                                                 |
| 08                  | ON                                                                                 | NONE                                                                               | (ON)                                                                                 |
| TERMINALS CONNECTED | 2-3                                                                                | ---                                                                                | 1-2                                                                                  |

NONE: NO MECHANICAL POSITION  
 OFF: MECHANICAL POSITION WITH NO ELECTRICAL CONNECTION  
 (ON): MOMENTARY ACTION

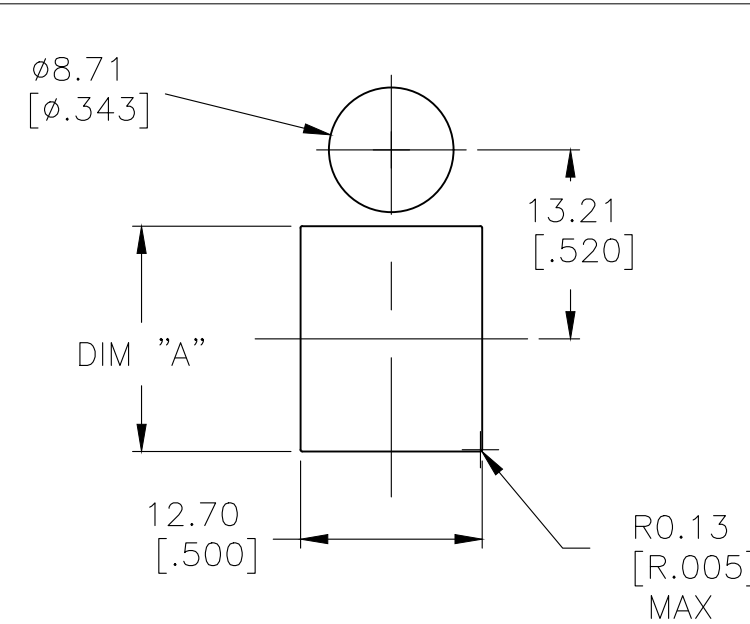
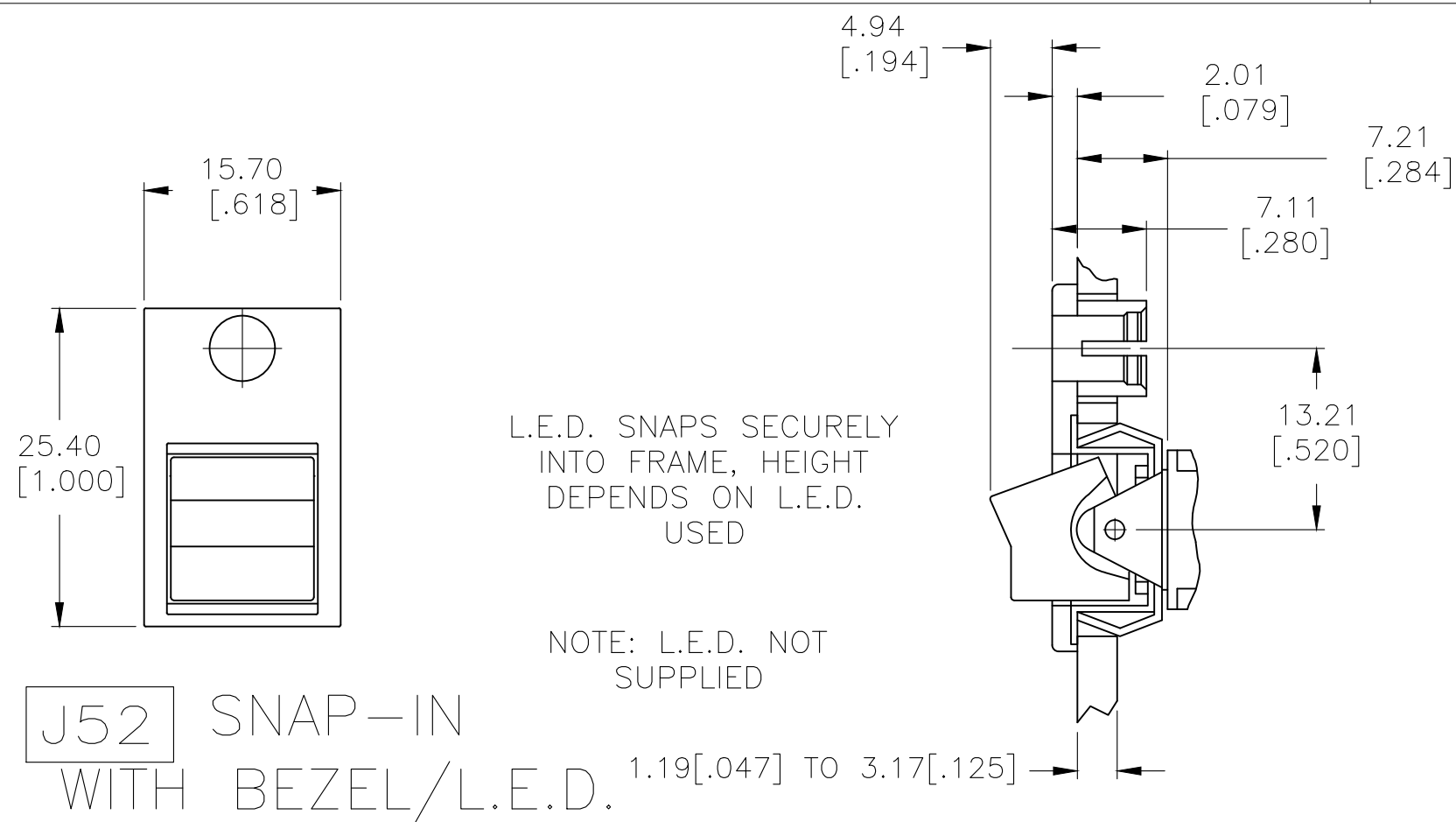
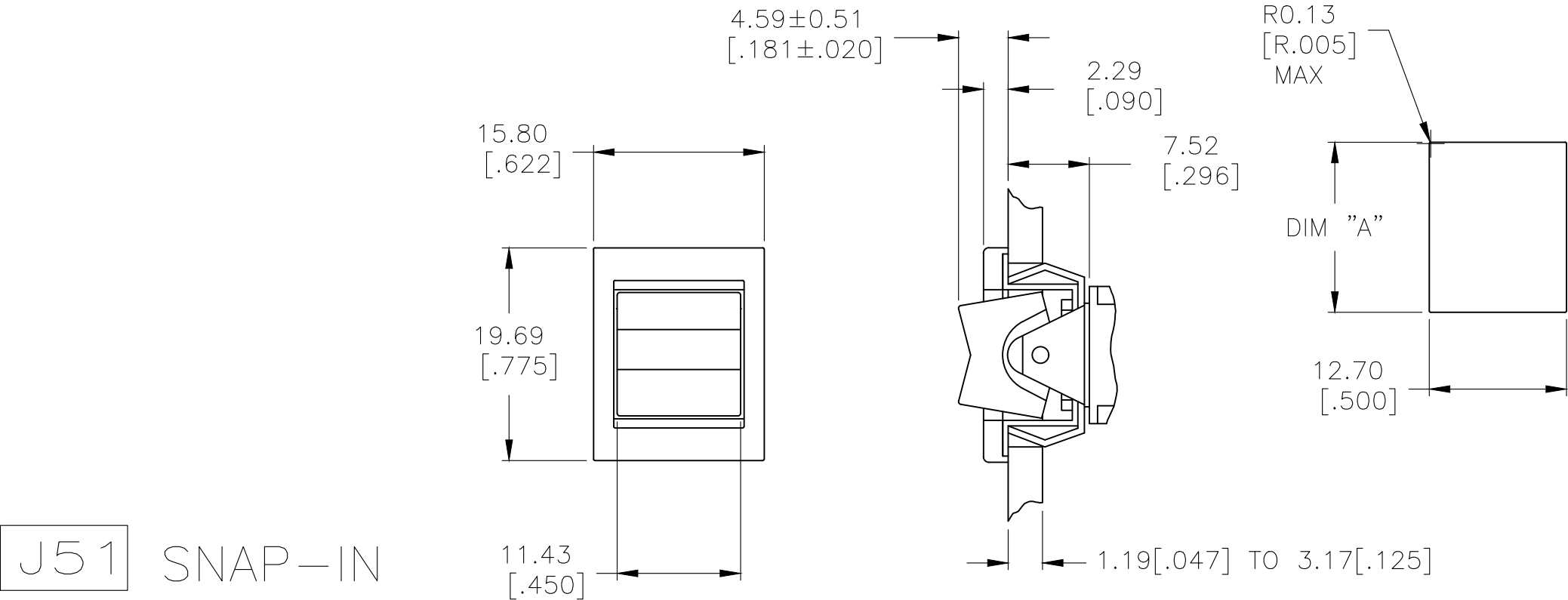
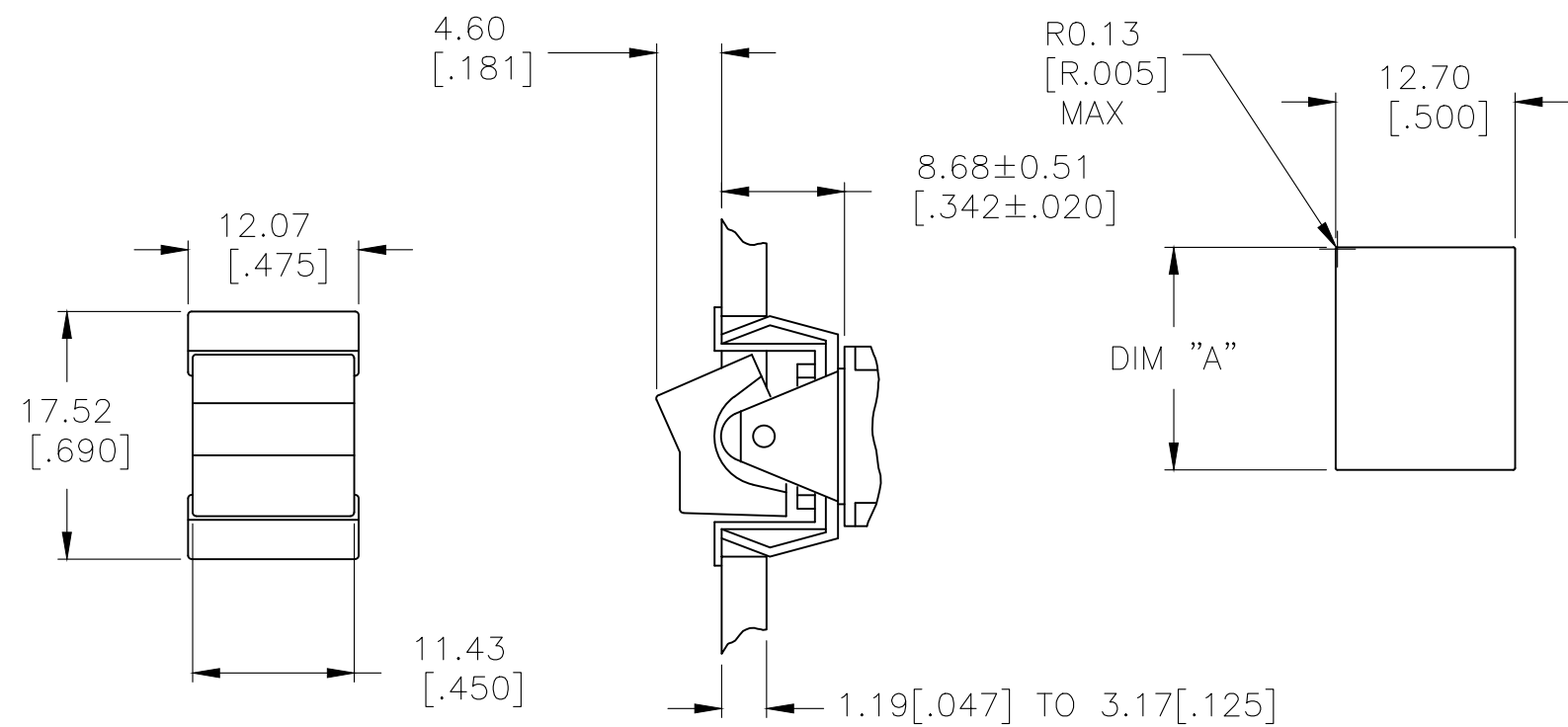
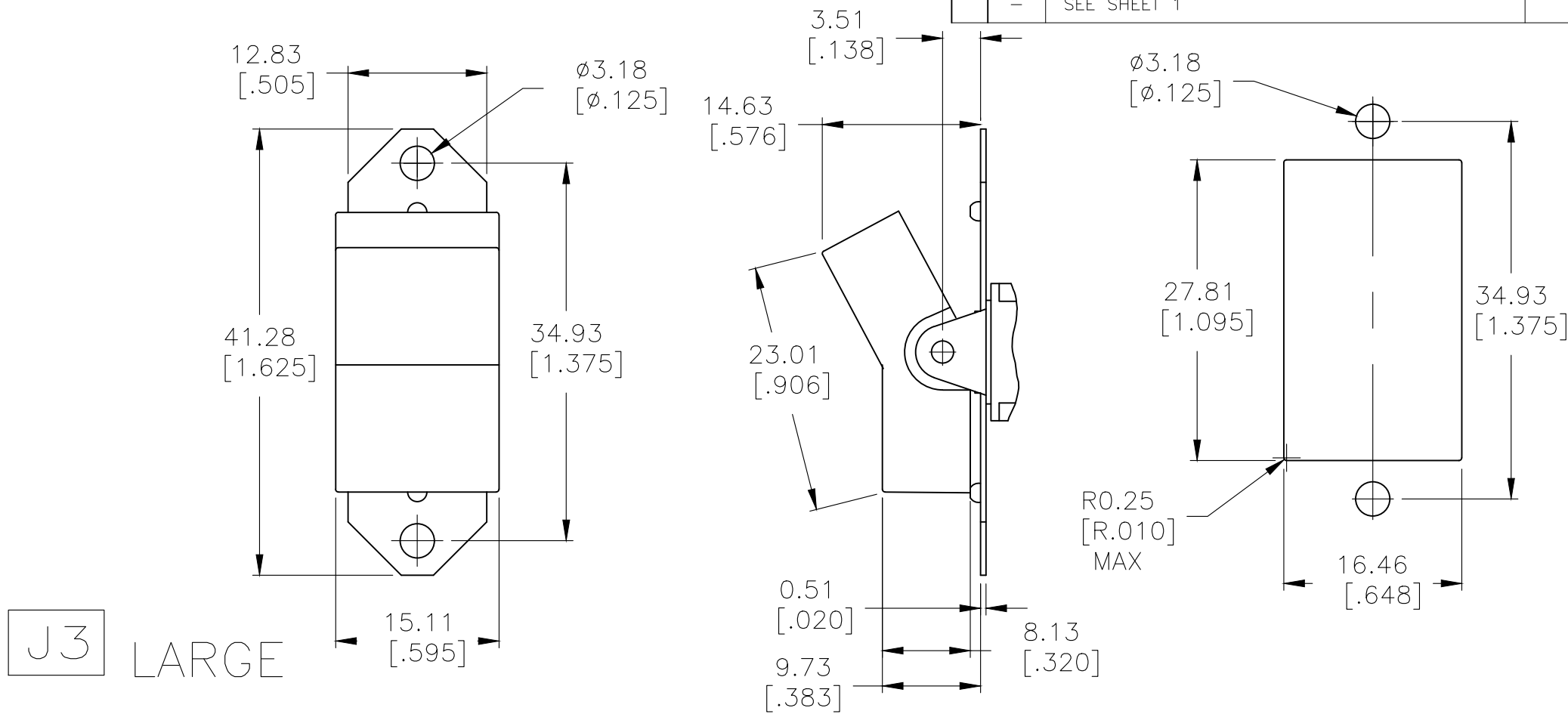
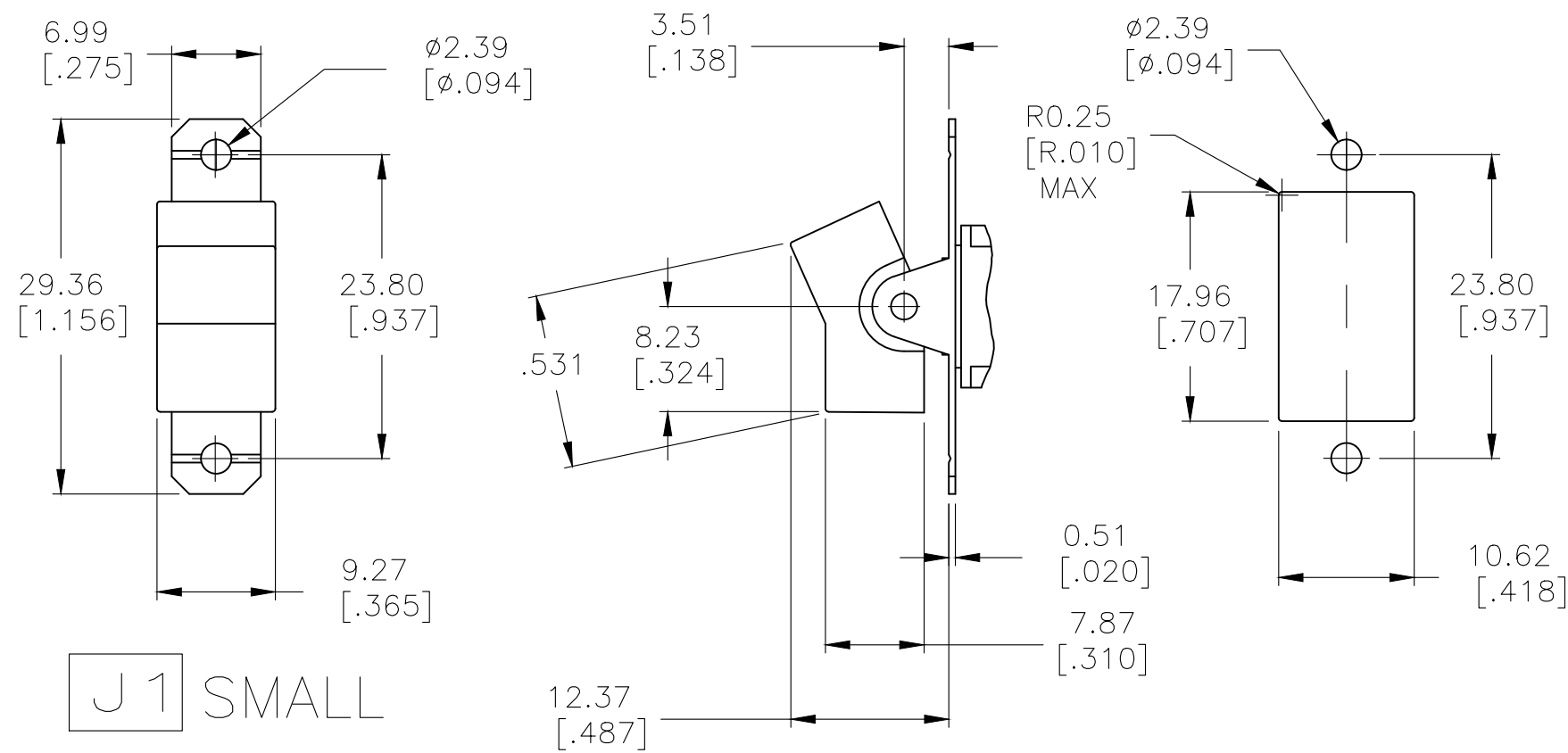
| SPECIFICATIONS                  |                                          |
|---------------------------------|------------------------------------------|
| RATING, B CONTACTS              | .4VA MAX @20V MAX. AC OR DC              |
| RATING, G CONTACTS—SEE NOTE 2   | .4VA MAX @20V MAX. AC OR DC OR           |
|                                 | 5A @120 VAC OR 28 VDC (RESISTIVE)        |
|                                 | 2A @250 VAC (RESISTIVE)                  |
| RATING, Q CONTACTS              | 5A @120 VAC OR 28 VDC (RESISTIVE)        |
|                                 | 2A @250 VAC (RESISTIVE)                  |
| ELECTRICAL LIFE                 | 6,000 CYCLES AT RATED LOAD               |
| CONTACT RESISTANCE              | 10 MILLIOHMS MAX INITIAL @ 2–4VDC, 100MA |
| INSULATION RESISTANCE           | 1,000 MEGOHMS MIN                        |
| DIELECTRIC WITHSTANDING VOLTAGE | 1,000 V RMS AT SEA LEVEL                 |
| OPERATING TEMPRATURE            | –30C TO 85C                              |

- 1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
- 2 G CONTACT OPTION CAN BE USED FOR SIGNAL OR POWER LEVEL SWITCHING. IF SWITCH IS USED AT LEVELS EXCEEDING .4VA @ 20V AC/DC, SWITCH IS RENDERED FOR POWER SWITCHING ONLY DUE TO ARC REMOVAL OF GOLD PLATING. RATING MARKED ON SWITCH IS 2A 250VAC, 5A 120VAC.
- 3 TE CONNECTIVITY LOGO PER PER TEC-202-36.
- 5 DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 6 PANEL MOUNT BRACKET SUPPLIED WITH TERMINALS W, Z AND Z3 ONLY.
- 7 ACTUATOR MARKED 
- 8 ACTUATOR MARKED 
- 9 ACTUATOR MARKED 
- 10 ALL LOGO, RATING, DATE CODE, AND FUNCTION MARKINGS TO BE LASER MARKED.
- 11 OBSOLETE
- 12 GRAY ACTUATOR WITH MODIFIED BRACKET (SUPPORT BRACKET TRIMMED PARALLEL TO THE PCB)

| PART NUMBER SEQUENCE CHART |          |          |          |         |                |               |      |
|----------------------------|----------|----------|----------|---------|----------------|---------------|------|
| MODEL                      | FUNCTION | ACTUATOR | TERMINAL | CONTACT | ACTUATOR COLOR | BEZEL COLOR   | ROHS |
| A1                         |          |          |          |         |                |               | 04   |
|                            | 01       | J1       | A        | B       | 0 BLACK (STD)  | 0 BLACK (STD) |      |
|                            | 03       | J3       | AV2      | G       | 1 BROWN        | 1 BROWN       |      |
|                            | 05       | J50      | C        | Q       | 2 RED          | 2 RED         |      |
|                            | 07       | J51      | V3       |         | 3 ORANGE       | 3 ORANGE      |      |
|                            | 08       | J52      | V4       |         | 4 YELLOW       | 4 YELLOW      |      |
|                            |          | J2       | V6       |         | 5 GREEN        | 5 GREEN       |      |
|                            |          | J4       | V7       |         | 6 BLUE         | 6 BLUE        |      |
|                            |          | J60      | W        |         | 8 GRAY         | 8 GRAY        |      |
|                            |          | J61      | W4       |         | 9 WHITE        | 9 WHITE       |      |
|                            |          | J62      | Z        |         |                |               |      |
|                            |          |          | Z3       |         |                |               |      |

|                                                                                       |  |                                                                                                                                    |  |                                                                                                       |                    |
|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>M.BINNER<br>06JAN05                                                                                                         |  |  TE Connectivity |                    |
| DIMENSIONS:<br>mm [INCHES]                                                            |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± 0.25[0.01]<br>4 PLC ± -<br>ANGLES ± 4° |  | NAME<br>M.ZITTO<br>06JAN05                                                                            |                    |
|  |  | PRODUCT SPEC<br>—<br>APPLICATION SPEC<br>—                                                                                         |  | GEMINI A SERIES ROCKER SWITCH<br>SINGLE POLE                                                          |                    |
| MATERIAL<br>—                                                                         |  | FINISH<br>—                                                                                                                        |  | SIZE<br>A2                                                                                            | CAGE CODE<br>00779 |
|                                                                                       |  | WEIGHT                                                                                                                             |  | DRAWING NO<br>C-1571986                                                                               | RESTRICTED TO<br>— |
| CUSTOMER DRAWING                                                                      |  |                                                                                                                                    |  | SCALE<br>2:1                                                                                          | SHEET<br>1 of 5    |
|                                                                                       |  |                                                                                                                                    |  | REV<br>A12                                                                                            |                    |

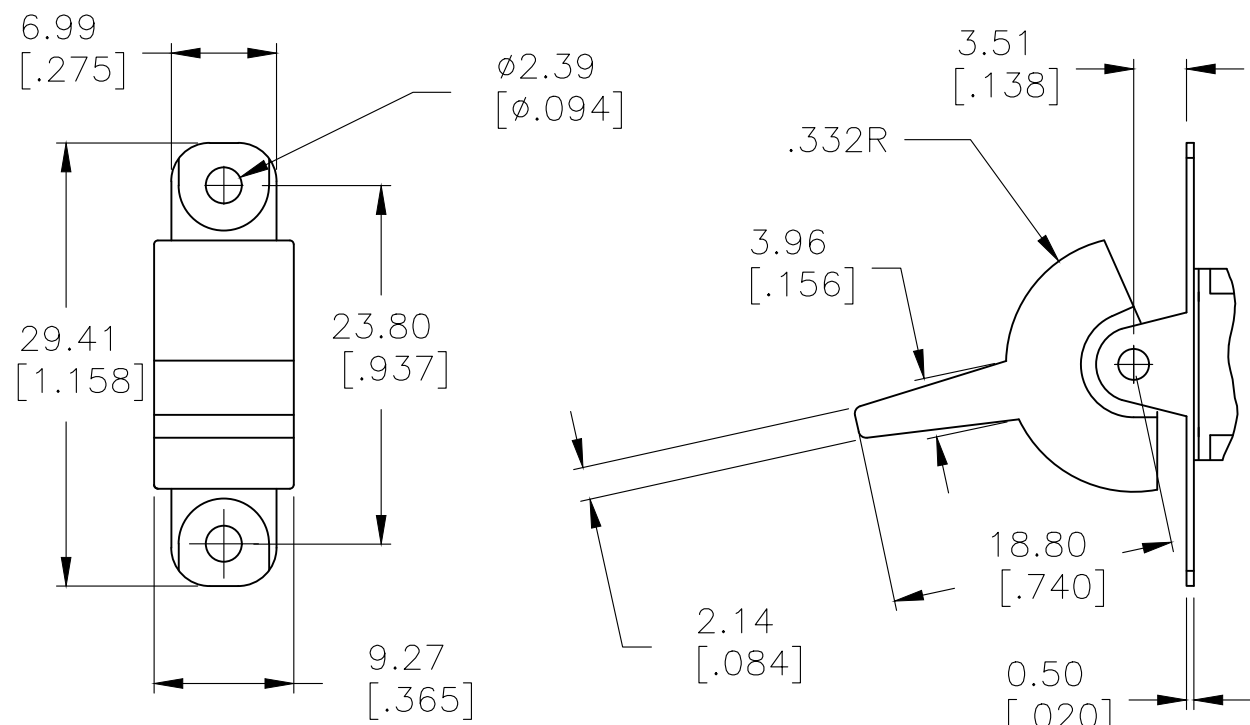
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |



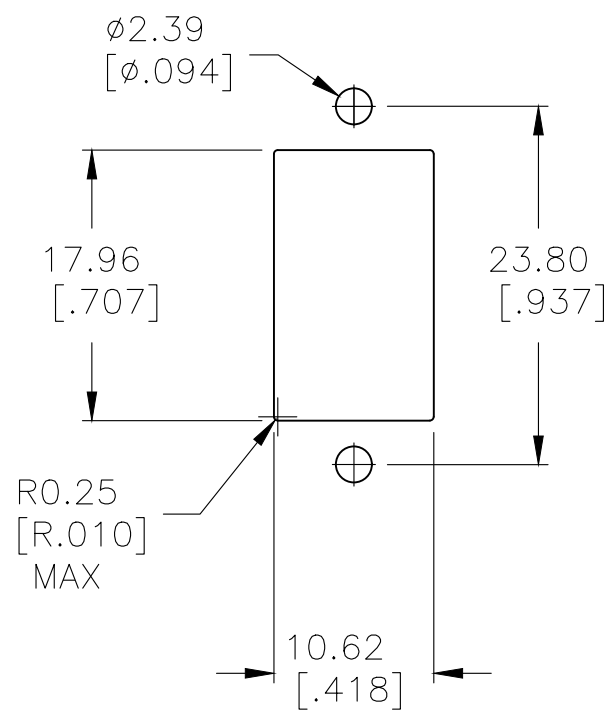
|                       |                         |
|-----------------------|-------------------------|
| 1.52[.060]–3.17[.125] | 15.75[.620]–15.87[.625] |
| 1.19[.047]–1.50[.059] | 15.72[.619]             |
| PANEL THICKNESS       | DIM "A"                 |

|                                                                                       |  |                       |           |                    |                                                                                                       |                 |            |
|---------------------------------------------------------------------------------------|--|-----------------------|-----------|--------------------|-------------------------------------------------------------------------------------------------------|-----------------|------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>M.BINNER       | 06JAN05   |                    |  TE Connectivity |                 |            |
|                                                                                       |  | CHK<br>M.ZITTO        | 06JAN05   |                    |                                                                                                       |                 |            |
| DIMENSIONS:<br>mm [INCHES]                                                            |  | APVD<br>M.ZITTO       | 06JAN05   |                    | NAME<br><br>GEMINI A SERIES ROCKER SWITCH<br>SINGLE POLE                                              |                 |            |
|  |  | PRODUCT SPEC<br>—     |           |                    |                                                                                                       |                 |            |
|                                                                                       |  | APPLICATION SPEC<br>— |           |                    |                                                                                                       |                 |            |
|                                                                                       |  | SIZE                  | CAGE CODE | DRAWING NO         |                                                                                                       | RESTRICTED TO   |            |
| MATERIAL<br>—                                                                         |  | WEIGHT<br>—           |           | A2 00779 C=1571986 |                                                                                                       | —               |            |
|                                                                                       |  | CUSTOMER DRAWING      |           |                    | SCALE<br>2:1                                                                                          | SHEET<br>2 of 5 | REV<br>A12 |

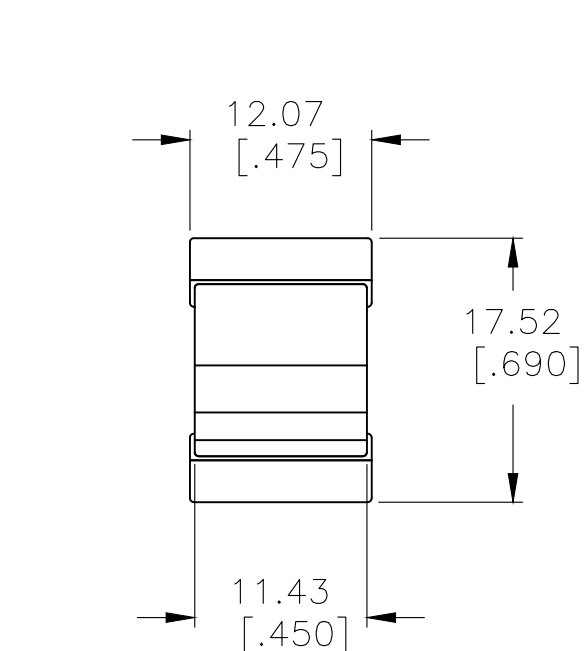
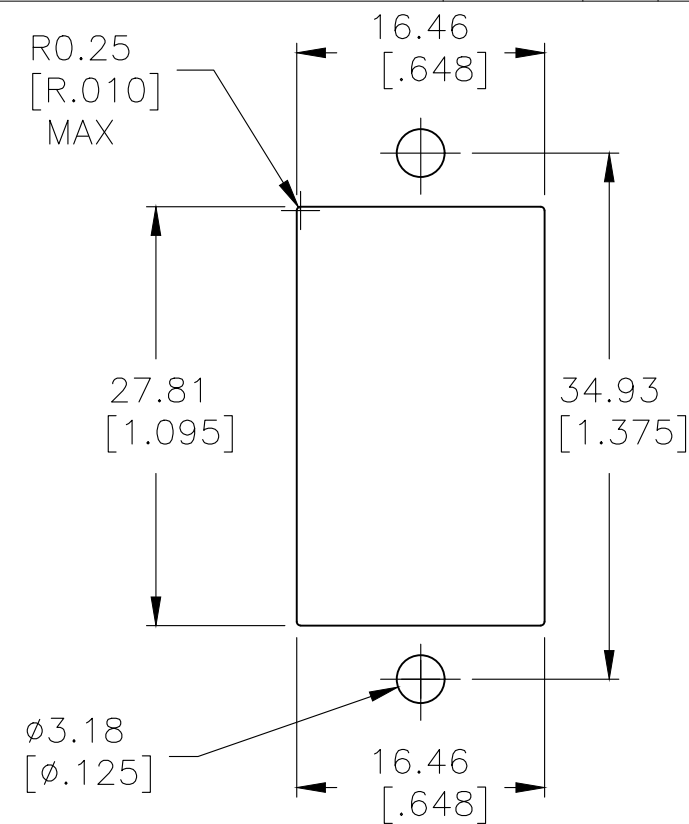
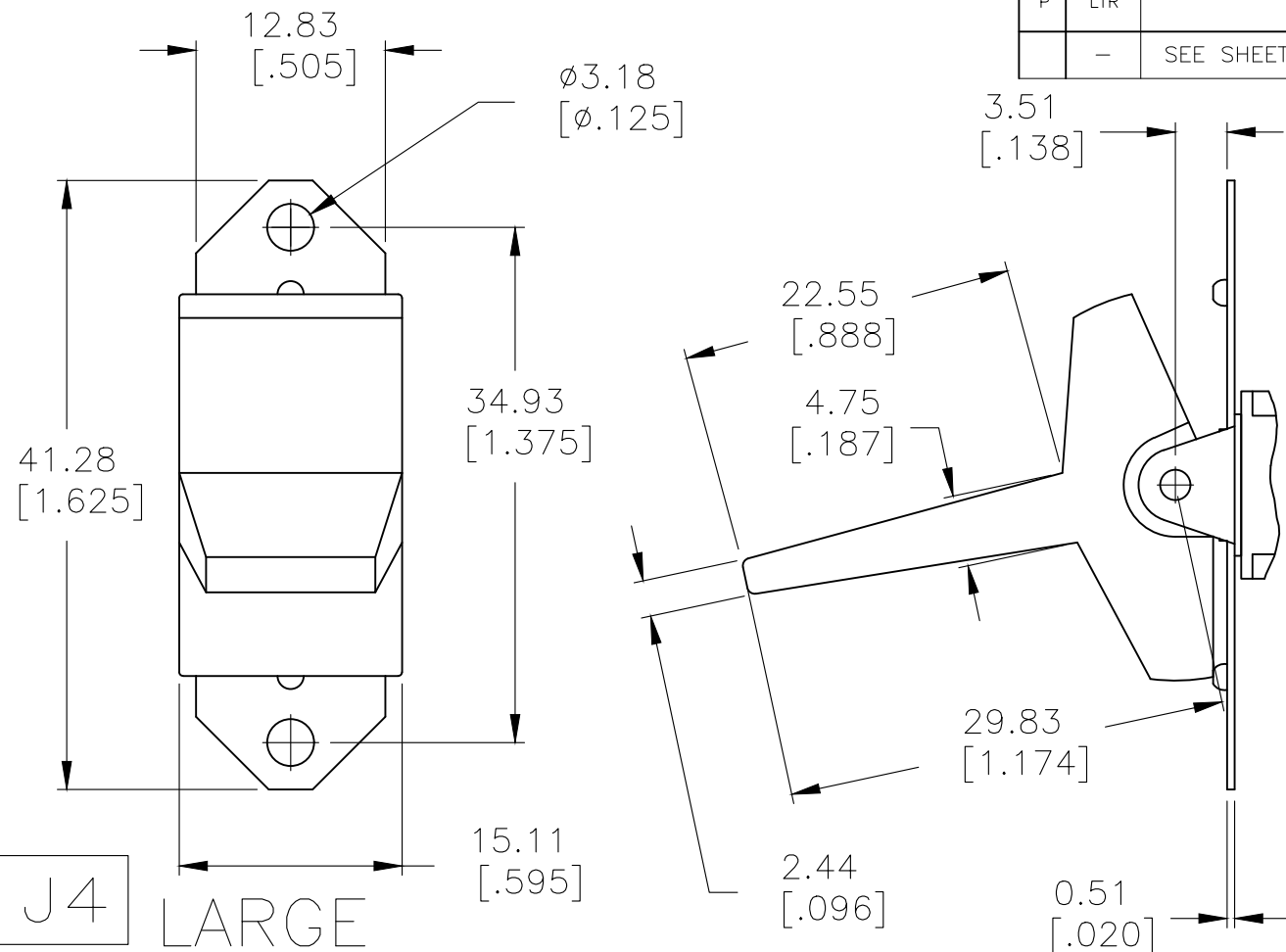
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |



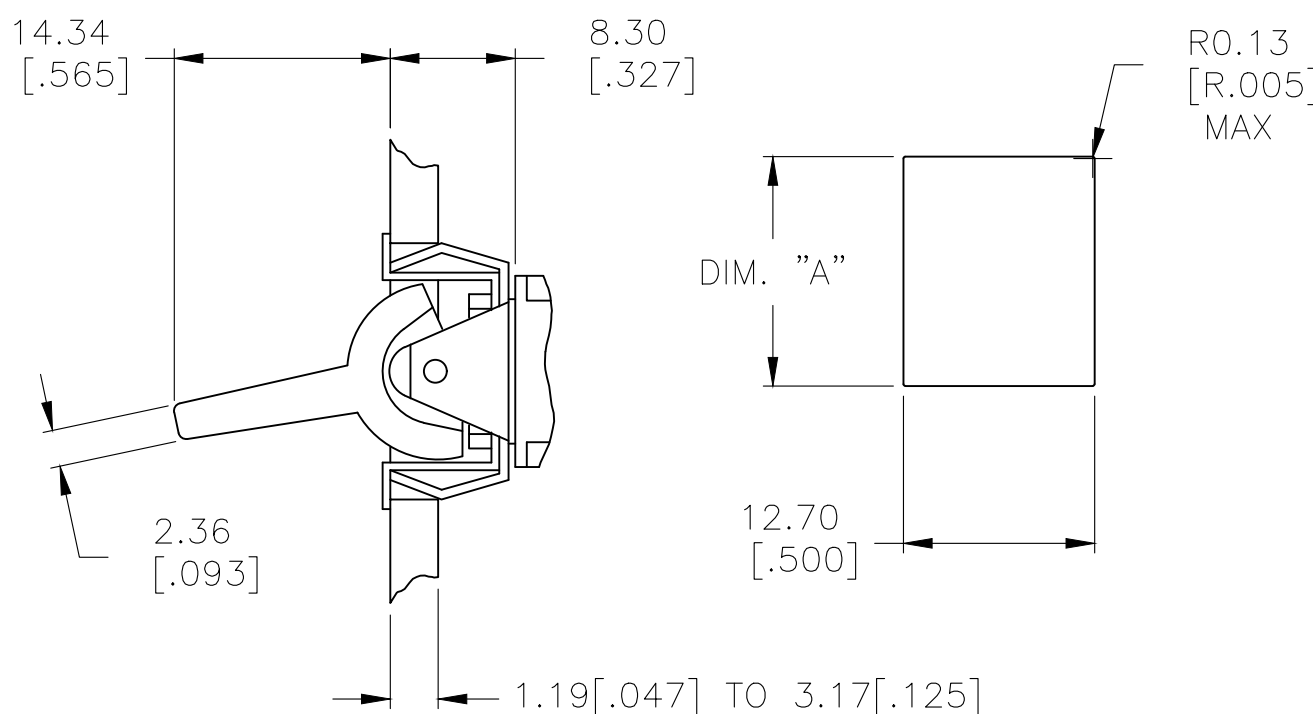
J2 SMALL



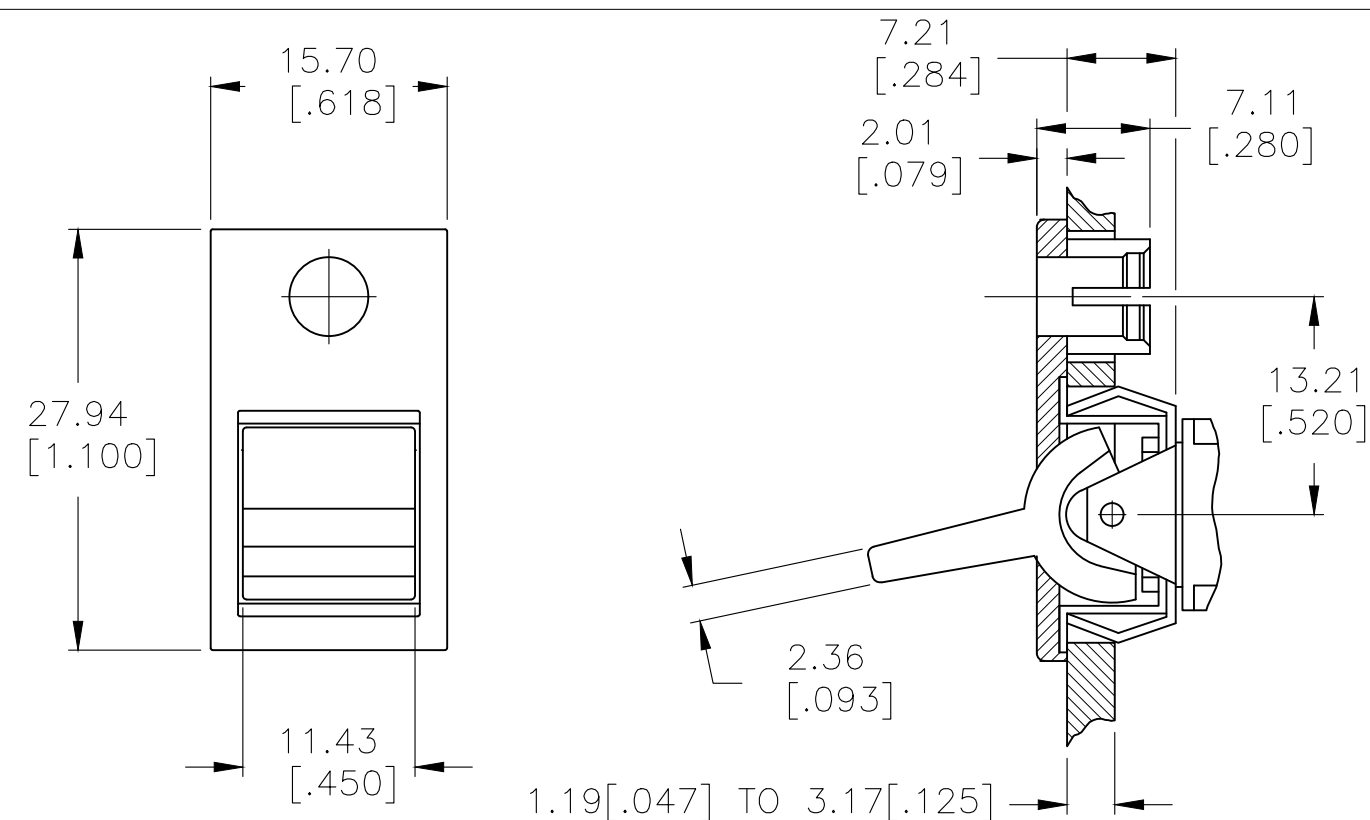
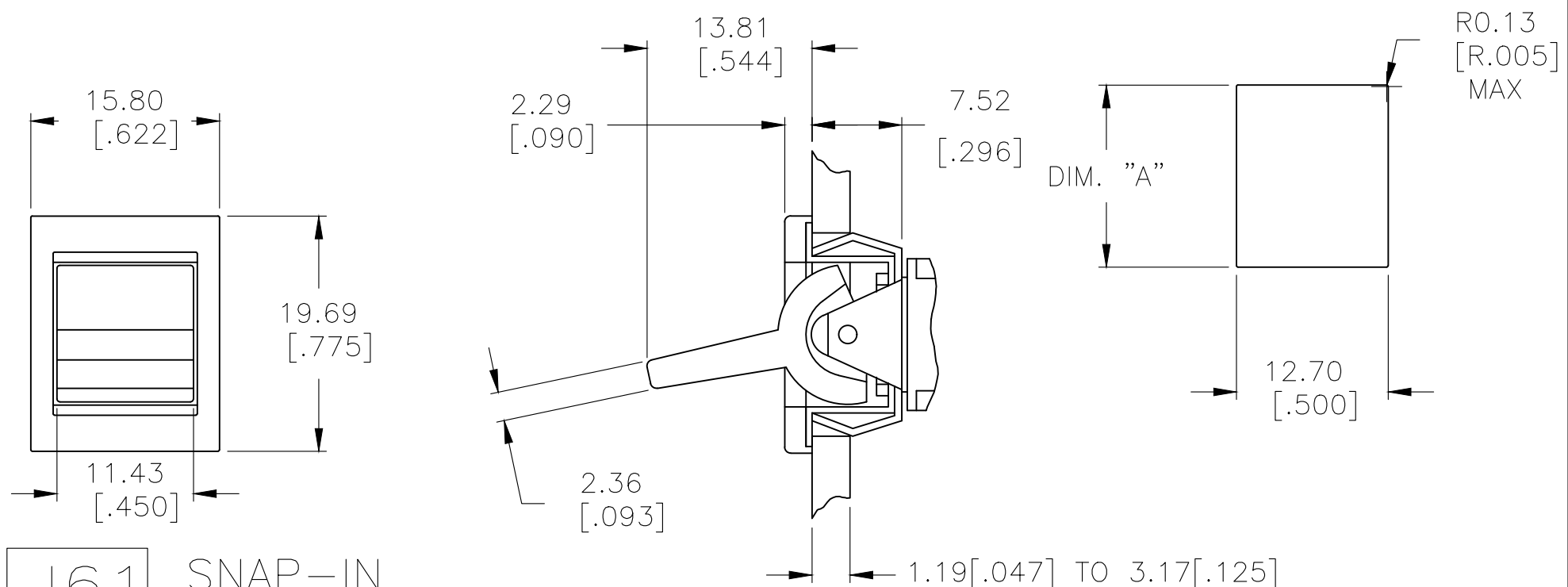
J4 LARGE



J60 SNAP-IN



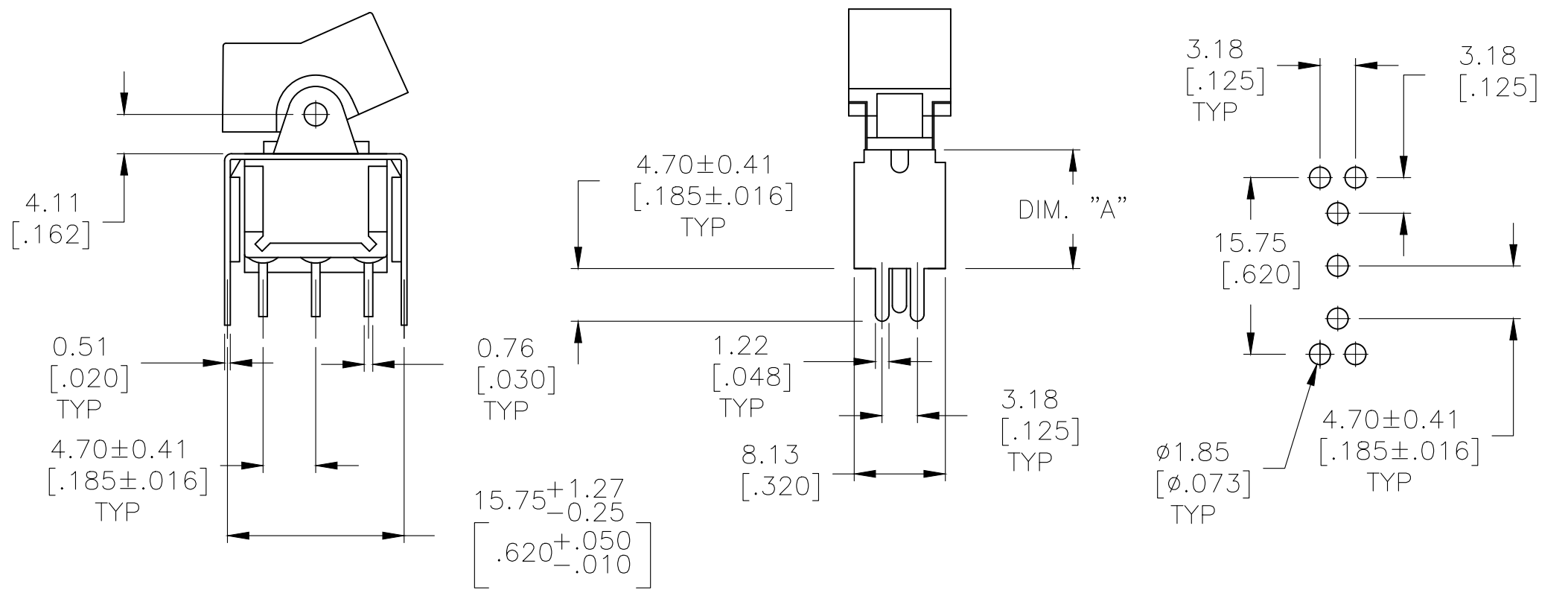
J61 SNAP-IN WITH BEZEL



J62 SNAP-IN WITH BEZEL/L.E.D.

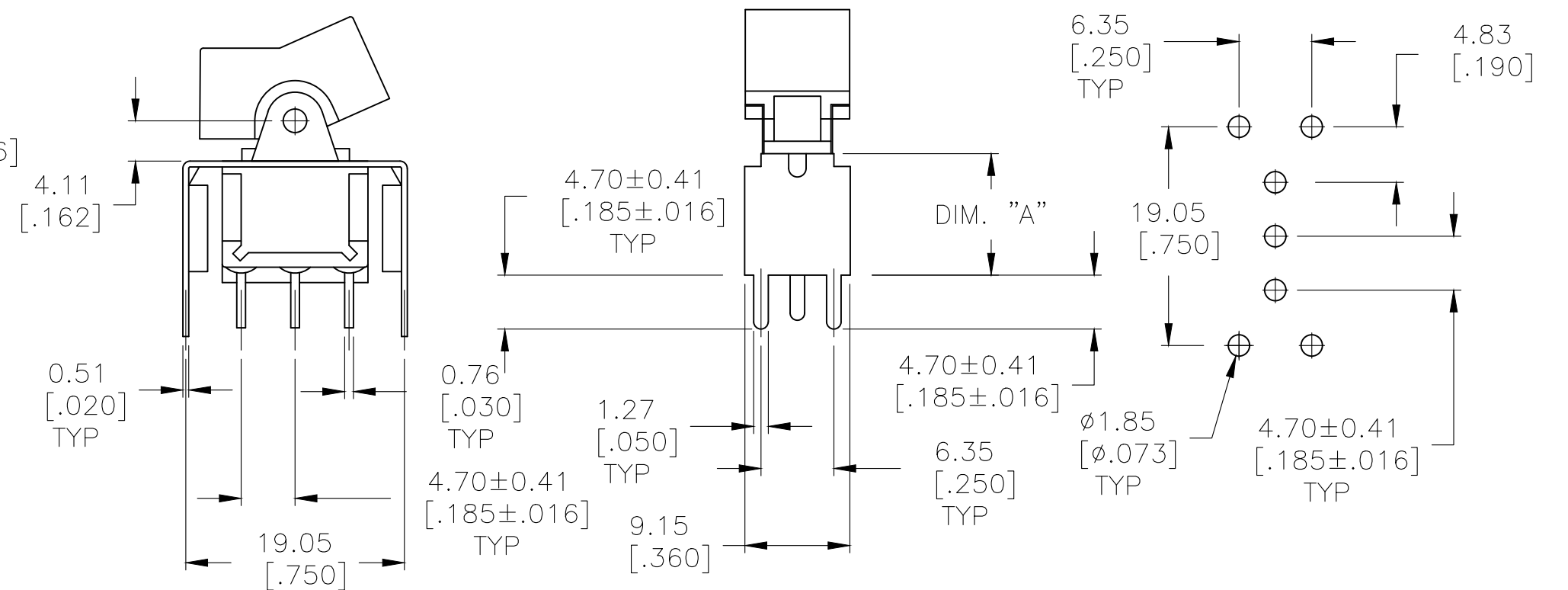
NOTE: L.E.D. NOT SUPPLIED

|                                        |  |                  |          |         |                 |  |
|----------------------------------------|--|------------------|----------|---------|-----------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN              | M.BINNER | 06JAN05 | TE Connectivity |  |
|                                        |  | CHK              | M.ZITTO  | 06JAN05 |                 |  |
| DIMENSIONS:                            |  | APVD             | M.ZITTO  | 06JAN05 | NAME            |  |
| mm [INCHES]                            |  | PRODUCT SPEC     |          |         |                 |  |
|                                        |  | APPLICATION SPEC |          |         | SIZE            |  |
|                                        |  |                  |          |         |                 |  |
| MATERIAL                               |  | WEIGHT           | -        |         | CAGE CODE       |  |
|                                        |  | FINISH           | -        |         | DRAWING NO      |  |
|                                        |  |                  |          |         | RESTRICTED TO   |  |
|                                        |  |                  |          |         | SCALE           |  |
|                                        |  |                  |          |         | SHEET           |  |
|                                        |  |                  |          |         | REV             |  |
|                                        |  |                  |          |         | A12             |  |



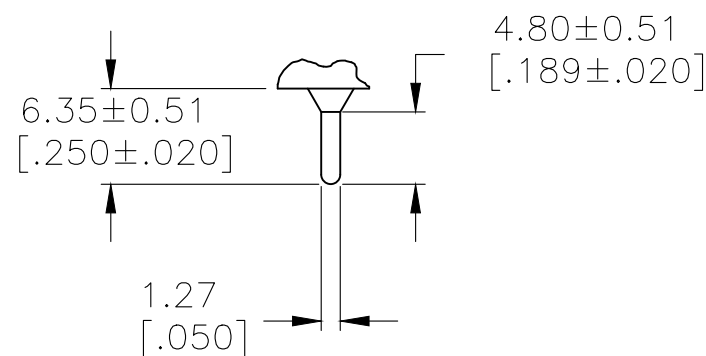
## VERTICAL SUPPORT BRACKET

| OPTION CODE | DIM "A"     |
|-------------|-------------|
| V3          | 11.68[.460] |
| V4          | 16.00[.630] |



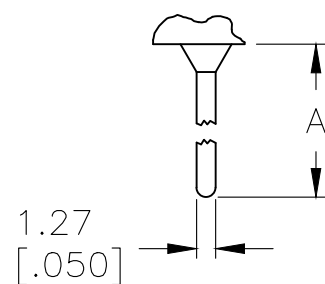
# VERTICAL SUPPORT BRACKET

| OPTION CODE | DIM "A"     |
|-------------|-------------|
| V6          | 11.68[.460] |
| V7          | 16.00[.630] |



.030 THK.

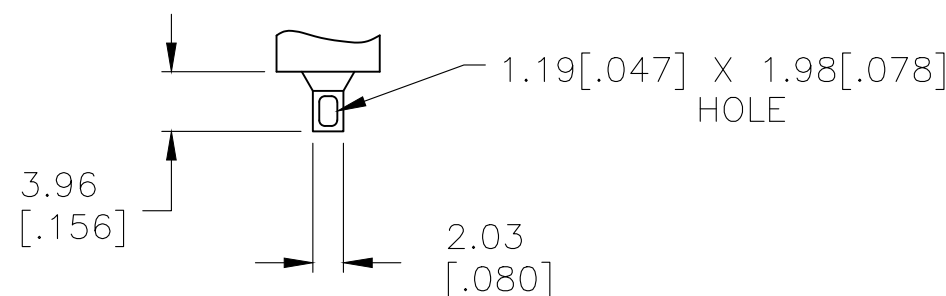
PRINTED CIRCUIT



.030 THK.

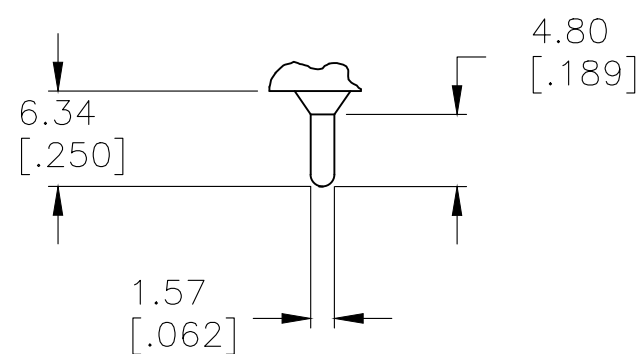
|        |              |
|--------|--------------|
| OPTION | DIM A        |
| W      | 18.69[.736]  |
| W4     | 26.97[1.062] |

W W4 WIRE WRAP



.030 THK.

Z WIRE LUG



.030 THK.

Z3 QUICK CONNECT

## MATERIALS CHART

| COMPONENT NAME           | BASE MATERIAL                                   | FINISH                 |
|--------------------------|-------------------------------------------------|------------------------|
| CASE                     | DAP, 30-40% GF, RED, UL94 V-0, COSMIC D72/6120F |                        |
| FRAME                    | 304 STAINLESS STEEL                             |                        |
| B TERMINALS & CONTACTS   | C194 COPPER                                     | GOLD OVER NICKEL       |
| G TERMINALS & CONTACTS   | C194 COPPER                                     | GOLD OVER SILVER       |
| Q TERMINALS & CONTACTS   | C194 COPPER                                     | SILVER                 |
| ACTUATOR                 | PHENOLIC, BLACK, UL94 V-1                       |                        |
| ROCKER CAP               | NYLON, BLACK, UL94 V-1, NYTEX MG-2012N          |                        |
| BUSHING & ACTUATOR LEVER | ZINC ALLOY K2                                   | .000100-.000150 NICKEL |
| SPRING                   | MUSIC WIRE                                      |                        |
| SUPPORT BRACKET          | C2680H BRASS                                    | TIN                    |
| PIVOT PIN                | STEEL                                           | NICKEL                 |
| TERMINAL SEAL            | EPOXY, UL94 V-1, BOOM HOUSE S-9001A             |                        |

|   |    |                 |             |
|---|----|-----------------|-------------|
| 1 | 1  | A105J1AV2Q004   | 5-1571986-0 |
| 1 | 1  | A105J1AQ004     | 4-1571986-9 |
| 1 | 1  | NOT ASSIGNED    | 4-1571986-8 |
| 1 | 12 | A103J1AV2Q004MB | 4-1571986-7 |
|   |    | A103J61ZQ0004   | 4-1571986-6 |
|   |    | A103J51ZQ0004   | 4-1571986-5 |
| 1 | 1  | A103J3ZQ004     | 4-1571986-4 |
| 1 | 1  | A103J2ZQ004     | 4-1571986-3 |
| 1 | 1  | A103J2CB004     | 4-1571986-2 |
|   |    | A103J1ZQ004     | 4-1571986-1 |
| 1 | 1  | A103J1V3Q004    | 4-1571986-0 |
| 1 | 1  | A103J1AV2Q004   | 3-1571986-9 |
|   |    | A103J1AV2B004   | 3-1571986-8 |
| 1 | 1  | NOT ASSIGNED    | 3-1571986-7 |
|   |    | A101J61ZQ0004   | 3-1571986-6 |
|   |    | A101J51ZQ2004   | 3-1571986-5 |
|   |    | A101J51ZQ0004   | 3-1571986-4 |
| 1 | 1  | A101J51ZB0004   | 3-1571986-3 |
| 1 | 1  | NOT ASSIGNED    | 3-1571986-2 |
|   |    | A101J51Z3Q0004  | 3-1571986-1 |
|   |    | A101J51Z3G0004  | 3-1571986-0 |
|   |    | A101J51CB0004   | 2-1571986-9 |
| 1 | 1  | A101J50ZQ004    | 2-1571986-8 |
| 1 | 1  | A101J50V3Q204   | 2-1571986-7 |
| 1 | 1  | A101J50V3Q004   | 2-1571986-6 |
| 1 | 1  | A101J50AV2Q004  | 2-1571986-5 |
| 1 | 1  | A101J4ZQ804     | 2-1571986-4 |
|   |    | A101J4ZQ004     | 2-1571986-3 |
| 1 | 1  | A101J3ZQ004     | 2-1571986-2 |
| 1 | 1  | A101J3V3Q204    | 2-1571986-1 |
|   |    | A101J2ZQ004     | 2-1571986-0 |
|   |    | A101J2VB904     | 1-1571986-9 |
| 1 | 1  | A101J2AV2Q004   | 1-1571986-8 |
|   |    | A101J1ZQ004     | 1-1571986-7 |
| 1 | 1  | A101J1ZB004     | 1-1571986-6 |
|   |    | A101J1V3Q004    | 1-1571986-5 |
|   |    | A101J1V3B004    | 1-1571986-4 |
| 1 | 1  | A101J1CQ004     | 1-1571986-3 |
|   |    | A101J1CG004     | 1-1571986-2 |
|   |    | A101J1AV2Q004   | 1-1571986-1 |
| 1 | 1  | A101J1AV2B004   | 1-1571986-0 |
|   |    | A101J1AQ204     | 1571986-9   |
|   |    | A101J1AQ004     | 1571986-8   |
|   |    | A101J1AB004     | 1571986-7   |
| 1 | 1  | NOT ASSIGNED    | 1571986-6   |
| 1 | 1  | NOT ASSIGNED    | 1571986-5   |
| 1 | 1  | NOT ASSIGNED    | 1571986-4   |
| 1 | 1  | NOT ASSIGNED    | 1571986-3   |
| 1 | 1  | NOT ASSIGNED    | 1571986-2   |
| 7 | 1  | A101J1AB004     | 1571986-1   |
|   |    | ALCO P/N        | P/N         |

|                      |   |                  |             |
|----------------------|---|------------------|-------------|
| $\uparrow\downarrow$ | 9 | A101J1AV2Q004AM9 | 7-1571986-4 |
| $\uparrow\downarrow$ | 8 | A101J1AV2Q004AM8 | 7-1571986-3 |
|                      | 7 | A101J1AV2Q004AM  | 7-1571986-2 |
| $\uparrow\downarrow$ |   | A108J61ZQ0004    | 7-1571986-0 |
|                      |   | A108J51ZQ0004    | 6-1571986-9 |
| $\uparrow\downarrow$ |   | A108J1ZQ004      | 6-1571986-8 |
| $\uparrow\downarrow$ |   | A108J1V3Q004     | 6-1571986-7 |
| $\uparrow\downarrow$ |   | A107J61ZQ0004    | 6-1571986-6 |
|                      |   | A107J51ZQ0004    | 6-1571986-5 |
|                      |   | A105J61ZQ0004    | 6-1571986-4 |
| $\uparrow\downarrow$ |   | A105J61ZG0004    | 6-1571986-3 |
| $\uparrow\downarrow$ |   | A105J52ZQ2004    | 6-1571986-2 |
|                      |   | A105J51ZQ0004    | 6-1571986-1 |
|                      |   | A105J4ZQ004      | 6-1571986-0 |
|                      |   | A105J3ZQ004      | 5-1571986-9 |
| $\uparrow\downarrow$ |   | A105J3CQ2004     | 5-1571986-8 |
| $\uparrow\downarrow$ |   | A105J3CQ004      | 5-1571986-7 |
|                      |   | A105J2ZQ004      | 5-1571986-6 |
| $\uparrow\downarrow$ |   | A105J2AV2Q004    | 5-1571986-5 |
| $\uparrow\downarrow$ |   | A105J2AQ004      | 5-1571986-4 |
|                      |   | A105J1ZQ004      | 5-1571986-3 |
| $\uparrow\downarrow$ |   | A105J1V3B004     | 5-1571986-2 |
| $\uparrow\downarrow$ |   | A105J1CQ004      | 5-1571986-1 |
|                      |   | ALCO P/N         | P/N         |

|                                                                                       |  |                                                                                       |         |                        |                                                                                                       |                    |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|---------|------------------------|-------------------------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br><u>M.BINNER</u>                                                                | 06JAN05 |                        |  TE Connectivity |                    |
|                                                                                       |  | CHK<br><u>M.ZITTO</u>                                                                 | 06JAN05 |                        |                                                                                                       |                    |
| DIMENSIONS:<br>mm [INCHES]                                                            |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                             |         | APVD<br><u>M.ZITTO</u> | NAME                                                                                                  |                    |
|  |  | 0 PLC ± —<br>1 PLC ± —<br>2 PLC ± —<br>3 PLC ± 0.25[0.01]<br>4 PLC ± —<br>ANGLES ± 4° |         | PRODUCT SPEC<br>—      | GEMINI A SERIES ROCKER SWITCH<br>SINGLE POLE                                                          |                    |
|                                                                                       |  |                                                                                       |         | APPLICATION SPEC<br>—  |                                                                                                       |                    |
| MATERIAL<br>—                                                                         |  | FINISH<br>—                                                                           |         | WEIGHT<br>—            | SIZE<br>A2                                                                                            | CAGE CODE<br>00779 |
|                                                                                       |  |                                                                                       |         |                        | DRAWING NO<br>C-1571986                                                                               | RESTRICTED TO<br>— |
| CUSTOMER DRAWING                                                                      |  |                                                                                       |         | SCALE<br>2:1           | SHEET<br>5 of 5                                                                                       | REV<br>A12         |