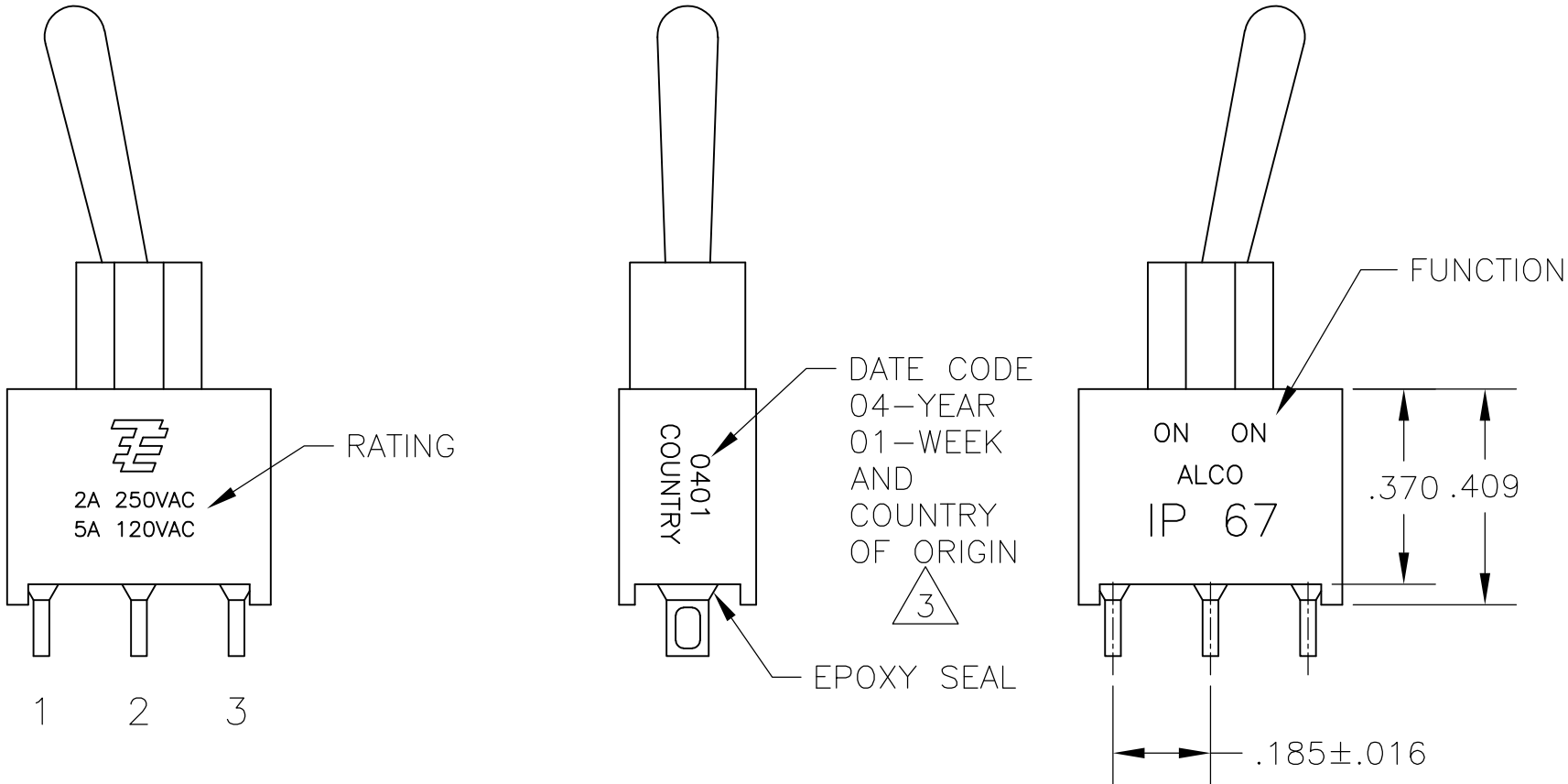
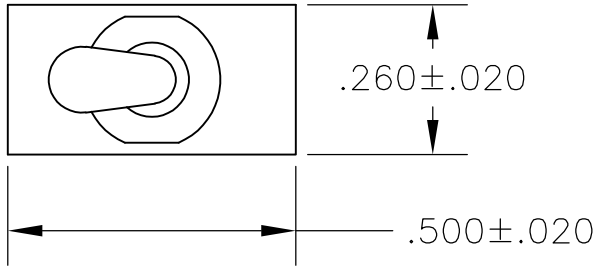


| LOC | DIST | REVISIONS |     |                           |           |     |      |
|-----|------|-----------|-----|---------------------------|-----------|-----|------|
| AD  | 00   | P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|     |      |           | A4  | REVISED PER ECO-14-005988 | 23APR2014 | NK  | RH   |

- 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 SWITCHES MEETS REQUIREMENTS OF IP67.
- 4 DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 5 ALL LOGO, RATING, DATE CODE, AND FUNCTION MARKINGS TO BE LASER MARKED.



| 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<br>OFF: MECHANICAL POSITION WITH NO MECHANICAL CONNECTION<br>(ON): MOMENTARY ACTION |       |       |       |

| SPECIFICATIONS CHART            |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| 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                                                      |

| PART NUMBER SEQUENCE CHART |          |        |         |          |         |      |
|----------------------------|----------|--------|---------|----------|---------|------|
| MODEL                      | FUNCTION | TOGGLE | BUSHING | TERMINAL | CONTACT | RoHS |
| AE1                        | 01       | M      | D1      | A        | B       | 04   |
|                            | 03       | S      |         | AV2      | G       |      |
|                            | 05       |        |         | C        | Q       |      |
|                            | 07       |        |         | V30      |         |      |
|                            | 08       |        |         | V40      |         |      |
|                            |          |        |         | W        |         |      |
|                            |          |        |         | W4       |         |      |
|                            |          |        |         | Z        |         |      |
|                            |          |        |         | Z3       |         |      |

EXAMPLE: AE101SD1CQ04

|                                        |                                                                                                                           |                  |         |                                                        |                    |                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------|--------------------|-------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                                                           | DWN<br>M. ZITTO  | 18MAY05 | TE Connectivity                                        |                    |                         |
| DIMENSIONS:<br>INCHES                  |                                                                                                                           | CHK<br>M. ZITTO  | -       |                                                        |                    |                         |
|                                        | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± .010<br>4 PLC ± -<br>ANGLES ± 2° | APVD<br>M. ZITTO | -       | NAME<br>GEMINI AE SERIES TOGGLE SWITCH,<br>SINGLE POLE |                    |                         |
|                                        |                                                                                                                           | PRODUCT SPEC     | -       |                                                        |                    |                         |
|                                        |                                                                                                                           | APPLICATION SPEC | -       | SIZE<br>A2                                             | CAGE CODE<br>00779 | DRAWING NO<br>C=1825142 |
| MATERIAL<br>-                          | FINISH<br>-                                                                                                               | WEIGHT<br>-      | -       | RESTRICTED TO<br>-                                     | SCALE<br>3:1       | SHEET<br>1 of 3         |
| CUSTOMER DRAWING                       |                                                                                                                           |                  |         | REV<br>A4                                              |                    |                         |

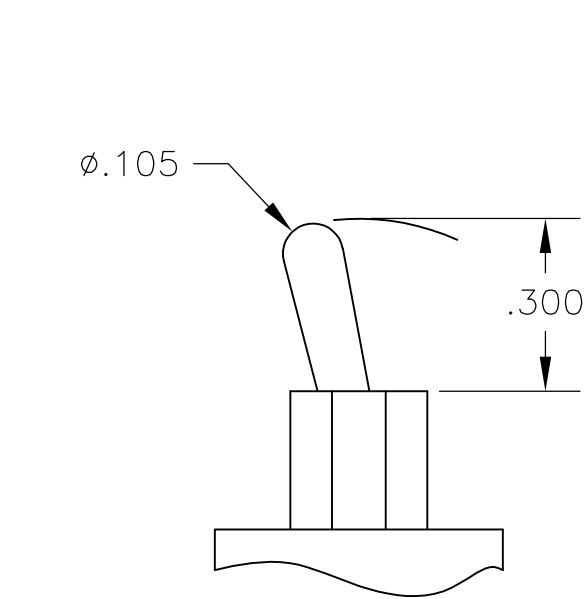
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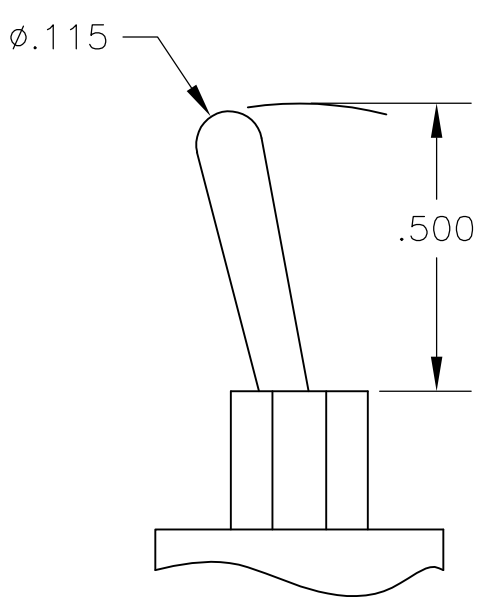
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| LOC |  | DIST |  | REVISIONS |     |             |      |     |      |
|-----|--|------|--|-----------|-----|-------------|------|-----|------|
| AD  |  | 00   |  | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |  |      |  |           | —   | SEE SHEET 1 | —    | —   | —    |

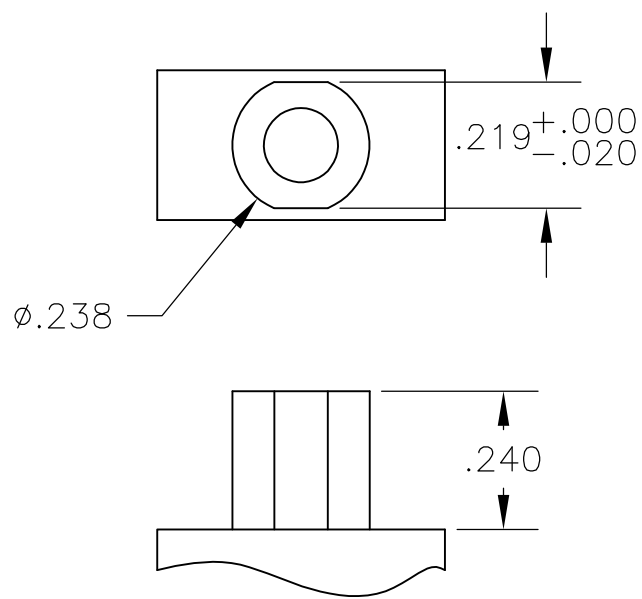
D



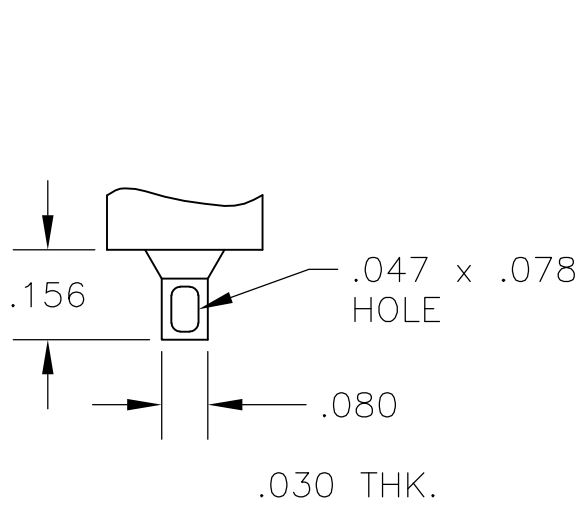
M SHORT



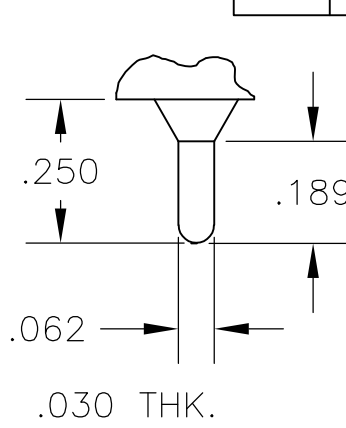
S STANDARD



D1 BUSHING

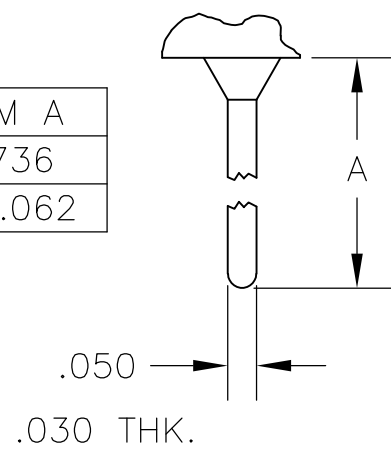


Z WIRE LUG



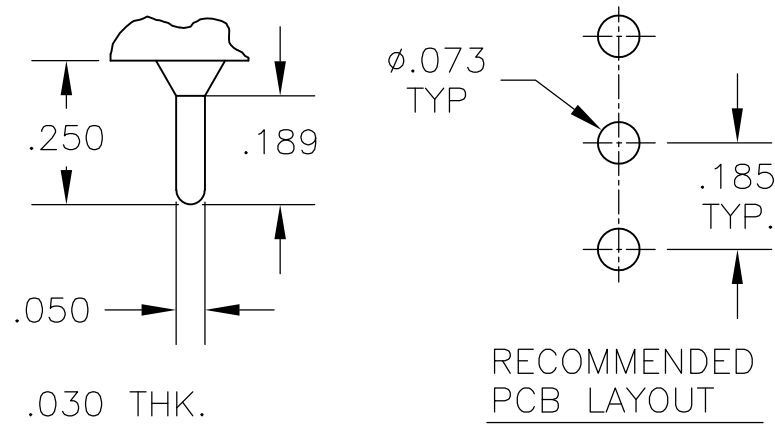
Z3 QUICK CONNECT

| OPTION | DIM A |
|--------|-------|
| W      | .736  |
| W4     | 1.062 |

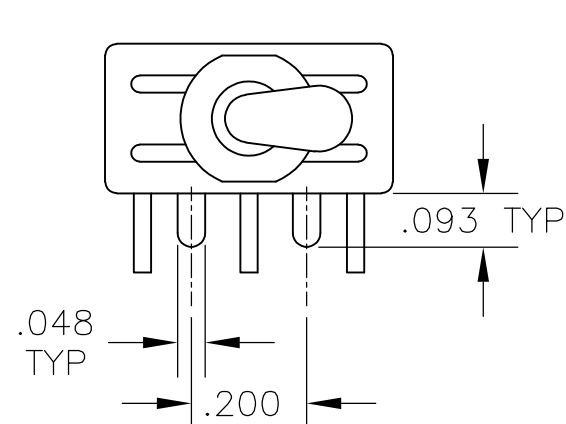


W W4 WIRE WRAP

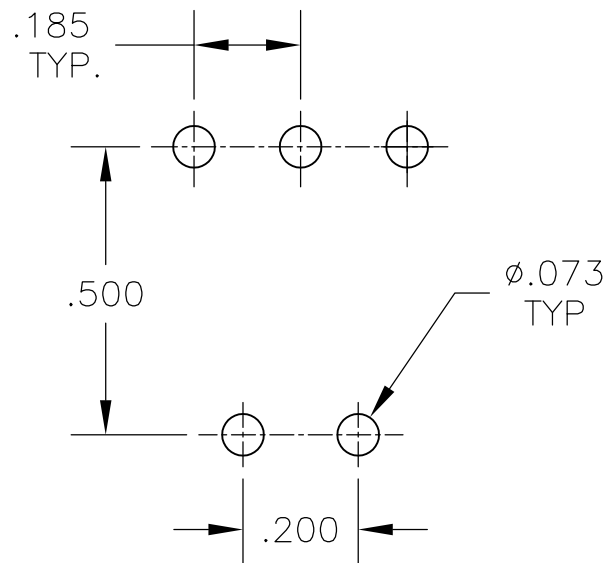
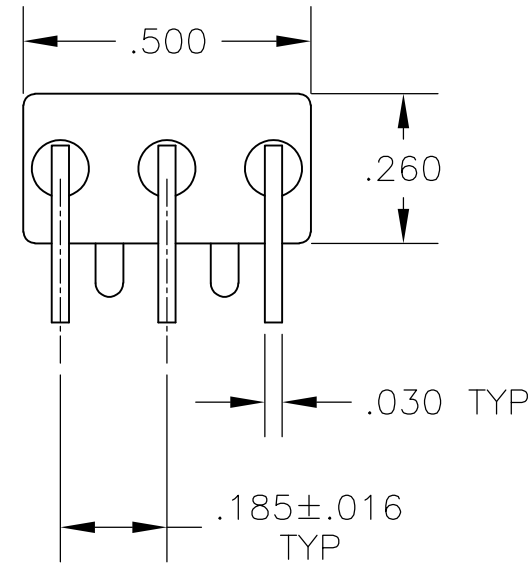
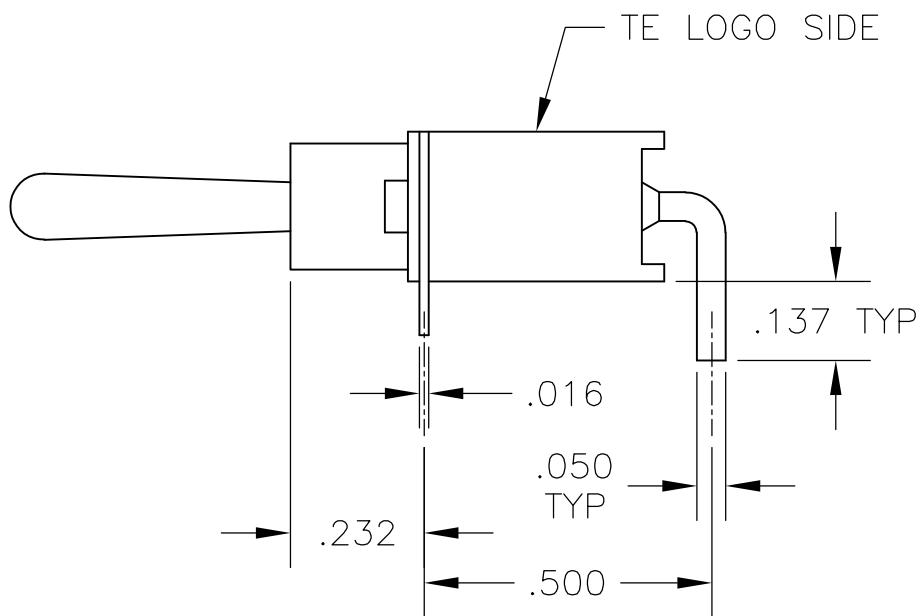
C



C PRINTED CIRCUIT

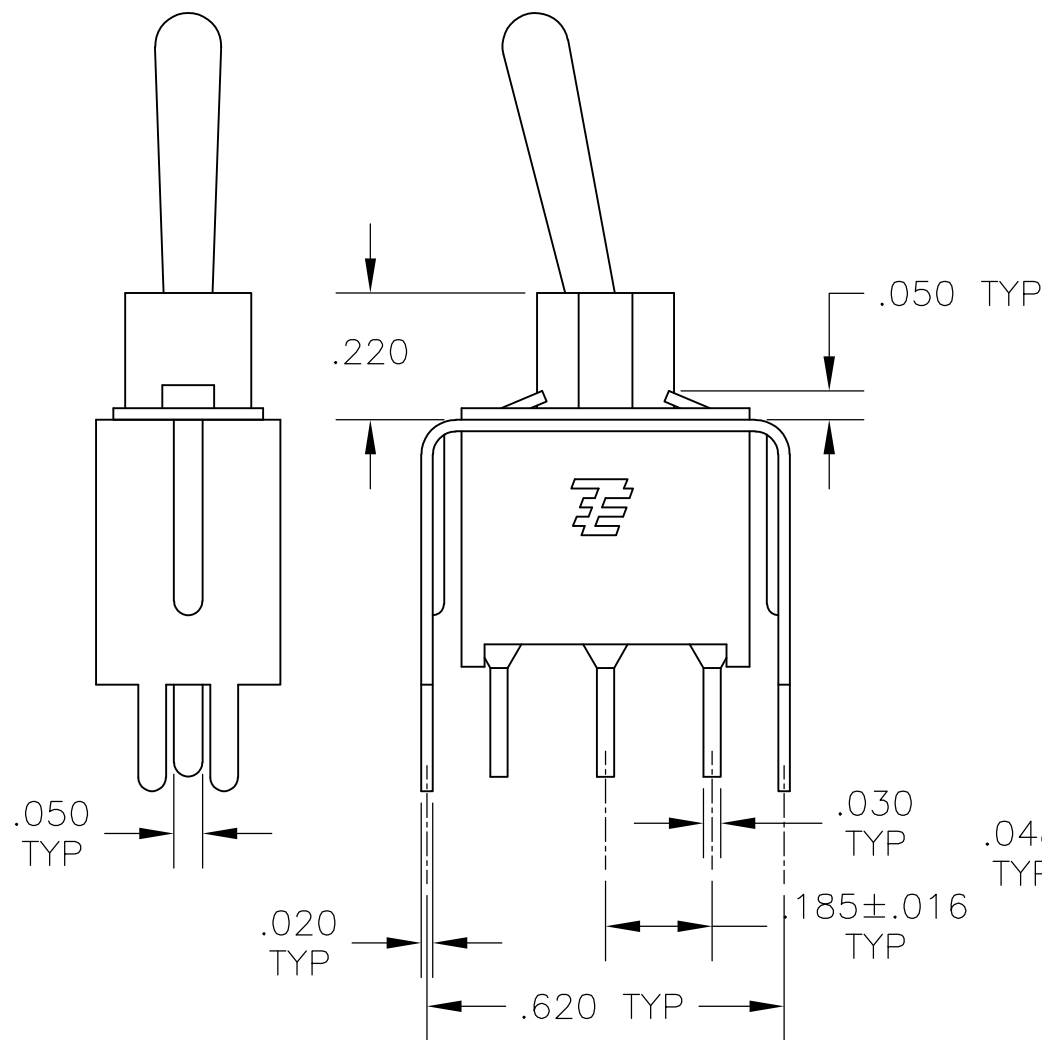


A RIGHT ANGLE

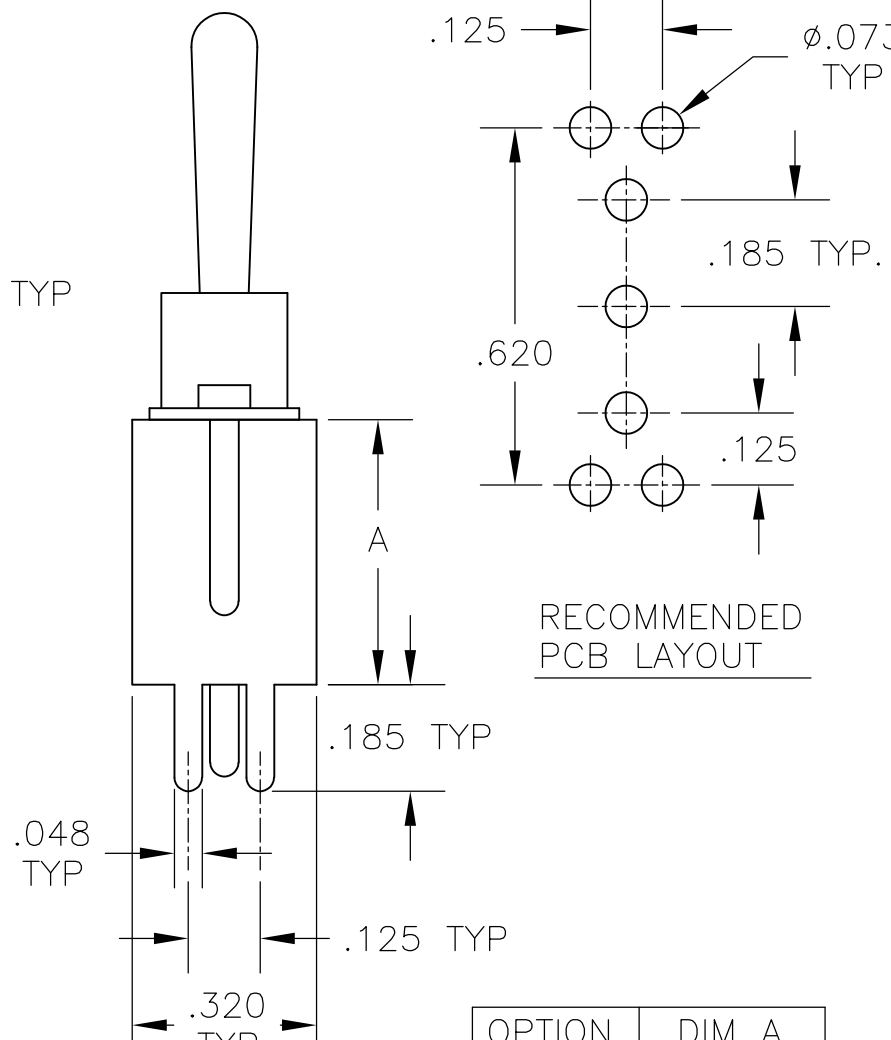


RECOMMENDED PCB LAYOUT

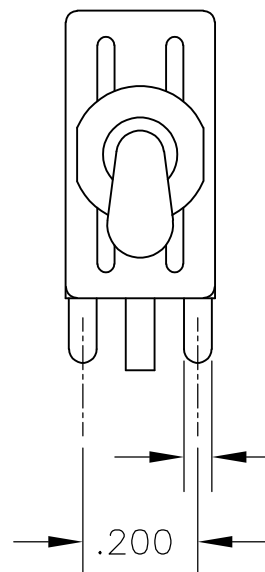
B



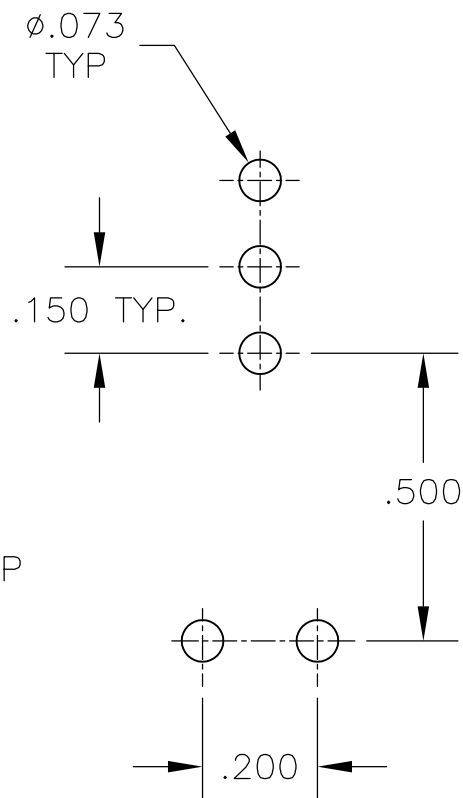
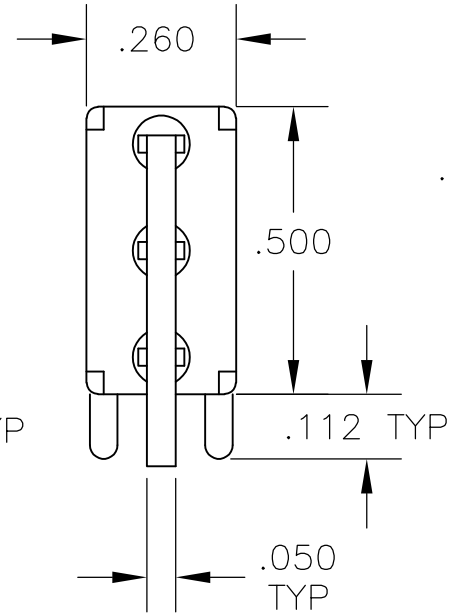
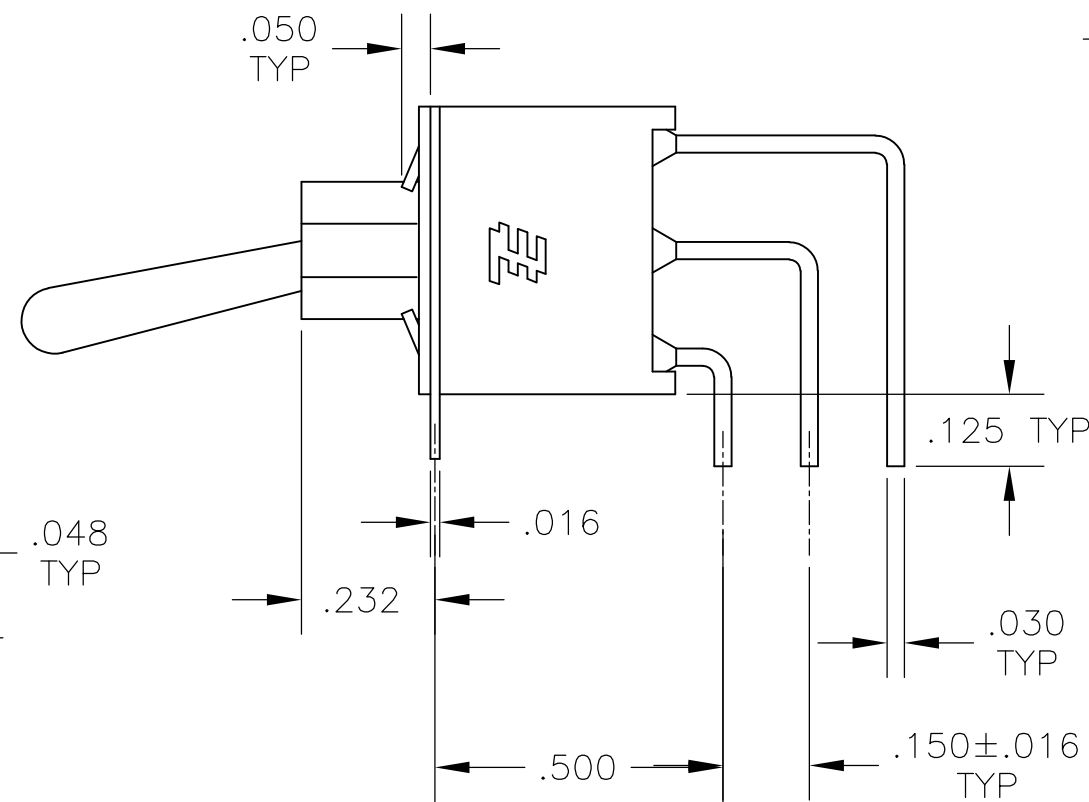
V30 V40 VERTICAL SUPPORT BRACKET



| OPTION | DIM A |
|--------|-------|
| V30    | .460  |
| V40    | .630  |



AV2 VERTICAL RIGHT ANGLE



RECOMMENDED PCB LAYOUT

A

|                                        |  |  |  |                      |  |  |  |
|----------------------------------------|--|--|--|----------------------|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  |  |  | DWN M. ZITTO 18MAY05 |  |  |  |
| DIMENSIONS: INCHES                     |  |  |  | CHK M. ZITTO         |  |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  |  |  | APVD M. ZITTO        |  |  |  |
| 0 PLC ± -                              |  |  |  | PRODUCT SPEC         |  |  |  |
| 1 PLC ± -                              |  |  |  | APPLICATION SPEC     |  |  |  |
| 2 PLC ± -                              |  |  |  | WEIGHT -             |  |  |  |
| 3 PLC ± .010                           |  |  |  | CUSTOMER DRAWING     |  |  |  |
| 4 PLC ± -                              |  |  |  | SCALE 3:1            |  |  |  |
| ANGLES ± 2°                            |  |  |  | SHEET 2 of 3         |  |  |  |
| FINISH -                               |  |  |  | REV A4               |  |  |  |

4

3

2

1

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LOCAD

DIST00

REVISIONS

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

| Alco P/N       | TE P/N      |
|----------------|-------------|
| AE101MD1AB04   | 1825142-1   |
| AE101MD1AG04   | 1825142-2   |
| not assigned   | 1825142-3   |
| AE101MD1AQ04   | 1825142-4   |
| AE101MD1AV2B04 | 1825142-5   |
| AE101MD1AV2Q04 | 1825142-6   |
| not assigned   | 1825142-7   |
| AE101MD1CB04   | 1825142-8   |
| AE101MD1CG04   | 1825142-9   |
| AE101MD1CQ04   | 1-1825142-0 |
| AE101MD1V30B04 | 1-1825142-1 |
| AE101MD1V30Q04 | 1-1825142-2 |
| AE101MD1W4B04  | 1-1825142-3 |
| AE101MD1W4Q04  | 1-1825142-4 |
| AE101SD1AB04   | 1-1825142-5 |
| AE101SD1AQ04   | 1-1825142-6 |
| not assigned   | 1-1825142-7 |
| AE101SD1AV2B04 | 1-1825142-8 |
| AE101SD1AV2Q04 | 1-1825142-9 |
| AE101SD1CB04   | 2-1825142-0 |
| AE101SD1CQ04   | 2-1825142-1 |
| AE101SD1V30B04 | 2-1825142-2 |
| AE101SD1V30Q04 | 2-1825142-3 |
| AE103MD1AB04   | 2-1825142-4 |
| AE103MD1AV2B04 | 2-1825142-5 |
| AE103MD1CB04   | 2-1825142-6 |
| NOT ASSIGNED   | 2-1825142-7 |
| AE103MD1W4B04  | 2-1825142-8 |
| AE103SD1AV2B04 | 2-1825142-9 |
| AE103SD1CB04   | 3-1825142-0 |
| AE103SD1CQ04   | 3-1825142-1 |
| not assigned   | 3-1825142-2 |
| AE103SD1V30B04 | 3-1825142-3 |
| AE103SD1W4B04  | 3-1825142-4 |
| AE105MD1AB04   | 3-1825142-5 |
| AE105MD1AG04   | 3-1825142-6 |
| AE105MD1AV2B04 | 3-1825142-7 |
| AE105MD1W4B04  | 3-1825142-8 |
| AE105SD1CB04   | 3-1825142-9 |
| AE105SD1V30B04 | 4-1825142-0 |

| Alco P/N       | TE P/N      |
|----------------|-------------|
| AE105SD1W4B04  | 4-1825142-1 |
| AE107MD1AV2B04 | 4-1825142-2 |
| AE107SD1AB04   | 4-1825142-3 |
| AE107SD1AG04   | 4-1825142-4 |
| AE107SD1CB04   | 4-1825142-5 |
| AE107SD1V30B04 | 4-1825142-6 |
| AE108MD1AQ04   | 4-1825142-7 |
| AE108MD1AV2B04 | 4-1825142-8 |
| AE108MD1AV2Q04 | 4-1825142-9 |
| AE108SD1AB04   | 5-1825142-0 |
| AE108SD1AQ04   | 5-1825142-1 |
| AE108SD1CQ04   | 5-1825142-2 |
| not assigned   | 5-1825142-3 |
| AE108SD1V30B04 | 5-1825142-4 |
| AE108SD1W4B04  | 5-1825142-5 |

MATERIALS CHART

| COMPONENT NAME           | BASE MATERIAL             | FINISH                 |
|--------------------------|---------------------------|------------------------|
| CASE & BUSHING           | NYLON, RED, UL94 V-0      |                        |
| O-RING                   | PVC, BLACK                |                        |
| B TERMINALS & CONTACTS   | COPPER                    | GOLD OVER NICKEL       |
| G TERMINALS & CONTACTS   | COPPER                    | GOLD OVER SILVER       |
| Q TERMINALS & CONTACTS   | COPPER                    | GOLD FLASH OVER SILVER |
| ACTUATOR                 | PHENOLIC, BLACK, UL94 V-1 |                        |
| LEVER                    | BRASS                     | CHROME                 |
| SPRING                   | MUSIC WIRE                |                        |
| PIVOT PIN                | STEEL                     | NICKEL                 |
| LOCK WASHER              | STAINLESS STEEL           |                        |
| LOCKING RING             | STAINLESS STEEL           |                        |
| NUTS                     | BRASS                     | NICKEL                 |
| TERMINAL SEAL            | EPOXY, UL94V-0            |                        |
| MARKING                  | INK, BLACK                |                        |
| SUPPORT BRACKET          | BRASS OR STEEL            | TIN                    |
| SUPPORT BRACKET RETAINER | STAINLESS STEEL           |                        |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± 2°

FINISH

-

DWN  
M. ZITTO

CHK  
M. ZITTO

APVD  
M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

18MAY05

-

-

-

-

-

SCALE 3:1

TE Connectivity

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

GEMINI AE SERIES TOGGLE SWITCH,  
SINGLE POLE

A200779

C=1825142

-

SHEET 3 OF 3

REV A4

1471-9 (3/11)

1825142

A

B

C

D



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Электрон  
Связь**

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**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

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