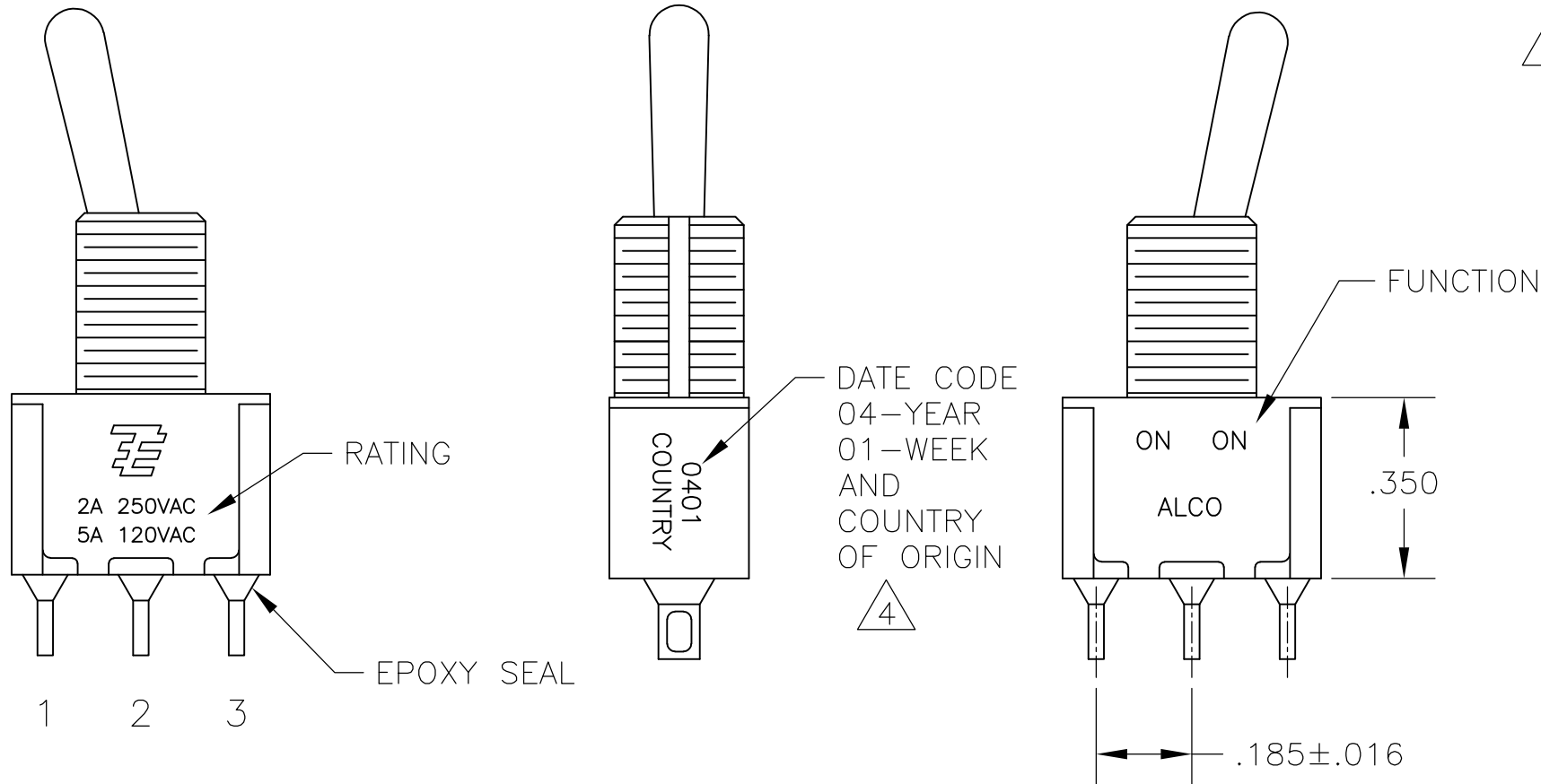
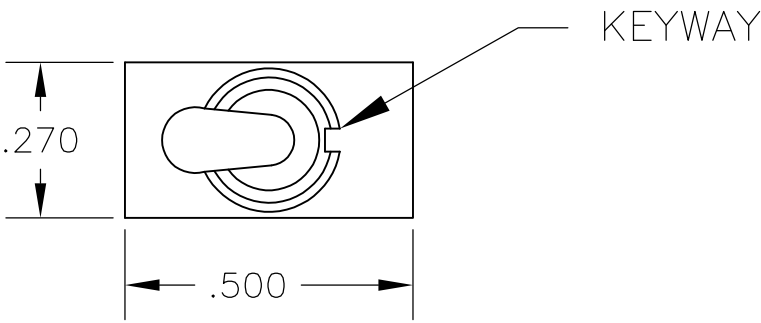


| REVISIONS |     |                           |           |     |      |
|-----------|-----|---------------------------|-----------|-----|------|
| P         | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|           | A7  | REVISED PER ECR-16-004460 | 30MAR2016 | RS  | RH   |

- 1
- ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).
- 2
- EACH SWITCH WITH THREDED BUSHINGS SUPPLIED WITH THE FOLLWING MOUNTING HARDWARE:  
(2) HEX NUTS  
(1) INTERNAL TOOTH LOCKWASHER  
(1) LOCATING RING.
- 3
- 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 FRAME IS 2A 250VAC, 5A 120VAC.
- 4
- DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.
- 5
- LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET OPTIONS.
- 6
- 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    |
| 08                                                                                                               | ON    | NONE  | (ON)  |
| TERMINALS CONNECTED                                                                                              | 2-3   | ---   | 1-2   |
| None: No mechanical position<br>Off: Mechanical position with no electrical connection<br>(On): Momentary action |       |       |       |

PART NUMBER SEQUENCE CHART

| PART NUMBER SEQUENCE CHART |          |        |         |          |         |      |
|----------------------------|----------|--------|---------|----------|---------|------|
| MODEL                      | FUNCTION | TOGGLE | BUSHING | TERMINAL | CONTACT | RoHS |
| A1                         | 01       | K      | CW      | A        | B       | 04   |
|                            | 08       | K1     | D       | AV2      | G       |      |
|                            |          | L      | D9      | C        | Q       |      |
|                            |          | L1     | H       | V30      |         |      |
|                            |          | L2     | Y       | V40      |         |      |
|                            |          | M      | Y9      | W        |         |      |
|                            |          | P3     |         | W4       |         |      |
|                            |          | S      |         | Z        |         |      |
|                            |          | T      |         | Z3       |         |      |
|                            |          | T1     |         |          |         |      |

EXAMPLE: A101SYCQ04

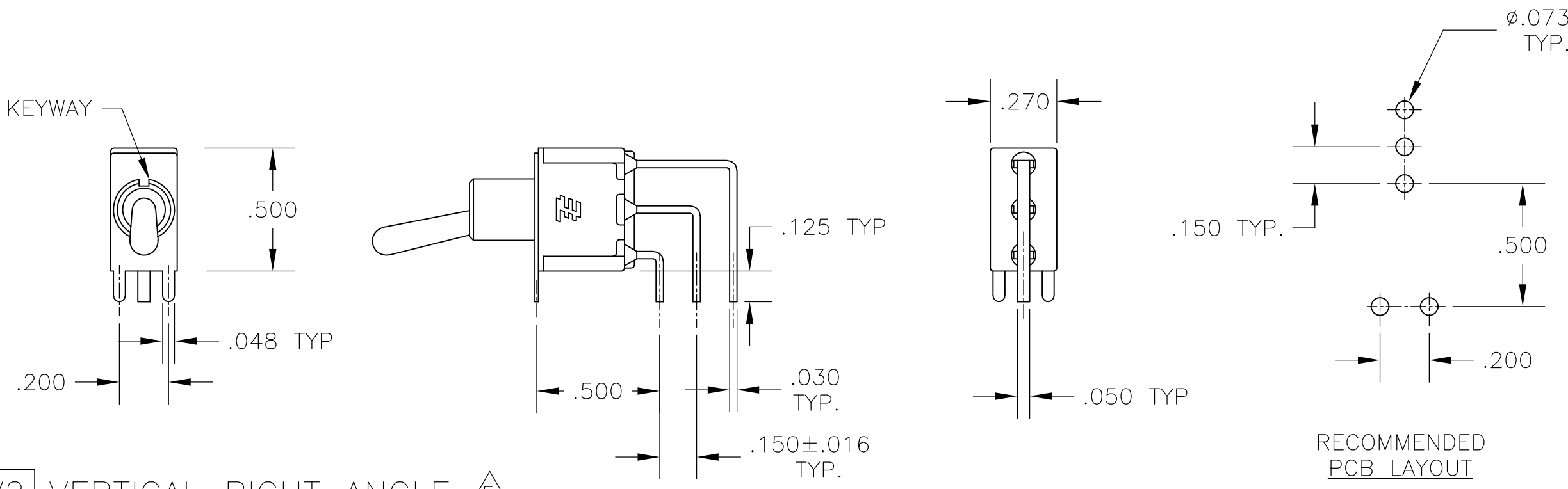
| SPECIFICATIONS CHART            |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| RATING, B CONTACTS              | .4VA MAX @20V MAX. AC OR DC                                         |
| RATING, G CONTACTS—SEE NOTE 3   | .4VA MAX @20V MAX. AC OR DC OR<br>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                                                         |

|                                        |                                                                                                                           |                                                                                  |              |                                                                            |                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------|-------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                                                           | DWN<br>B.S.VISWESWARA<br>CHK<br>M.ZITTO<br>APVD<br>P.BROUILLETTE<br>PRODUCT SPEC | 14APR05      | TE Connectivity                                                            |                         |
| DIMENSIONS:<br>INCHES                  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± .010<br>4 PLC ± -<br>ANGLES ± 2° | APPLICATION SPEC                                                                 |              | GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 2 POSITION FUNCTIONS (01 & 08) |                         |
| MATERIAL                               | FINISH                                                                                                                    | WEIGHT<br>0                                                                      | SIZE<br>A2   | CAGE CODE<br>00779                                                         | DRAWING NO<br>C=1825136 |
|                                        |                                                                                                                           | CUSTOMER DRAWING                                                                 | SCALE<br>3:1 | SHEET<br>1 of 4                                                            | REV<br>A7               |

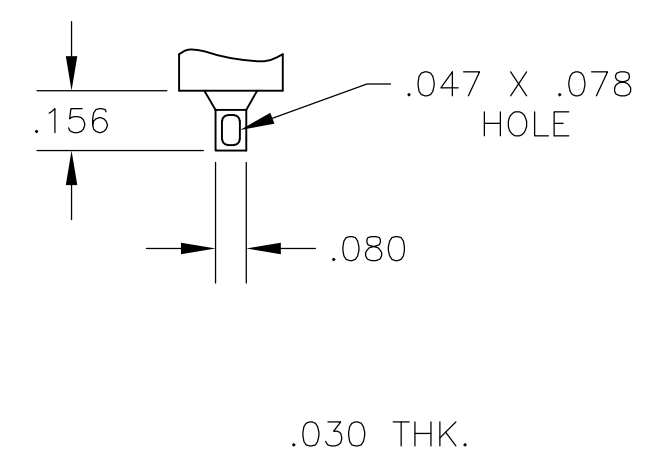


| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |

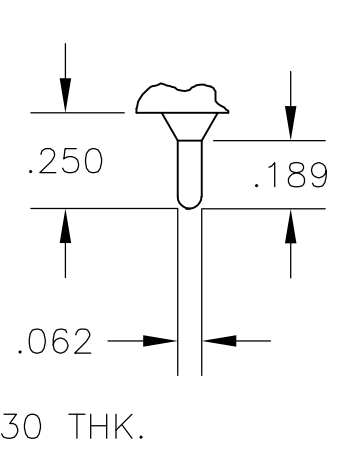
D



AV2 VERTICAL RIGHT ANGLE 5

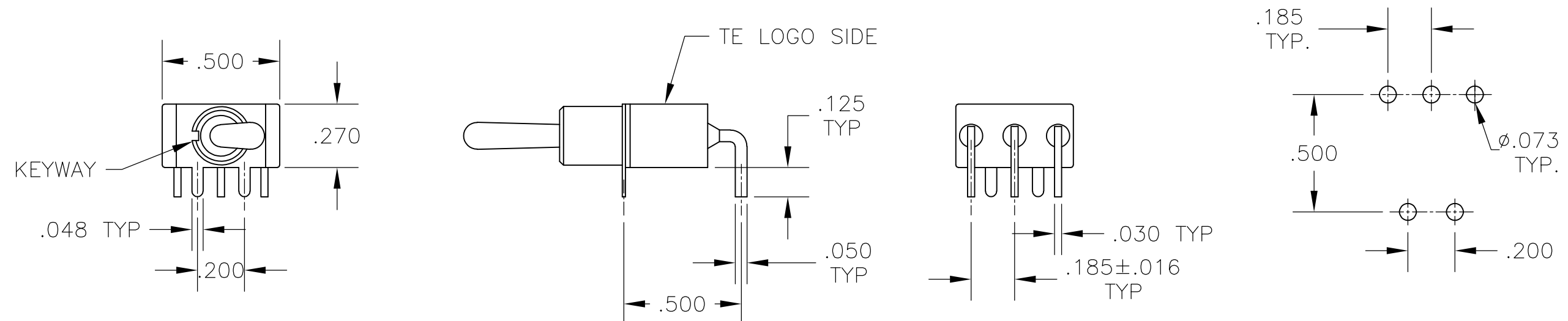


Z WIRE LUG

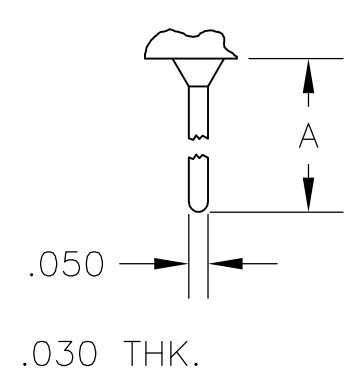


Z3 QUICK CONNECT

C



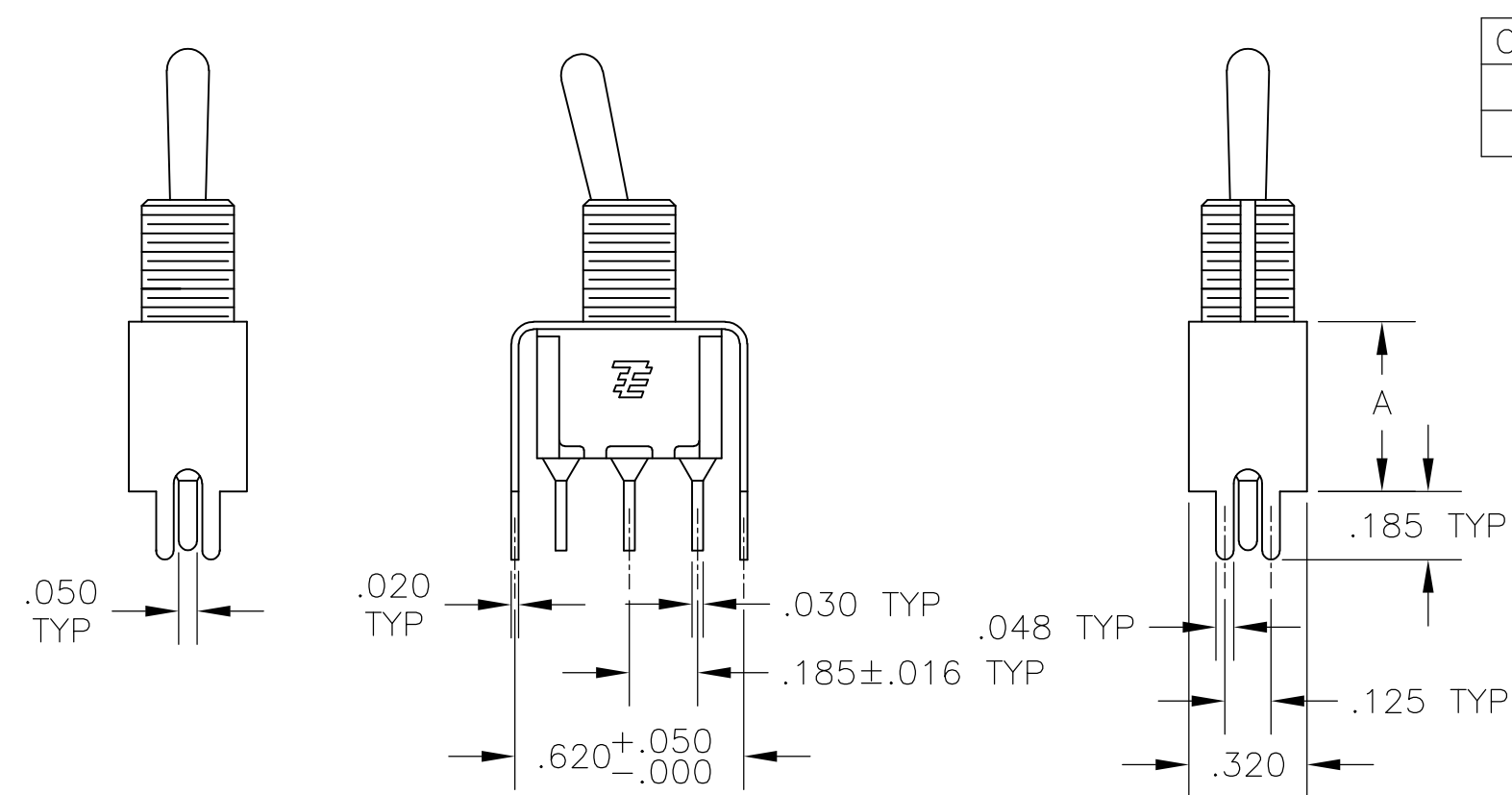
A RIGHT ANGLE 5



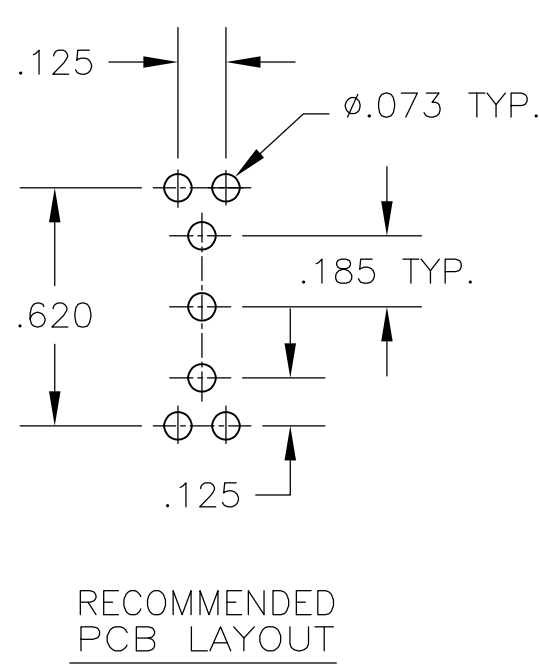
| OPTION | DIM A |
|--------|-------|
| W      | .736  |
| W4     | 1.062 |

W W4 WIRE WRAP

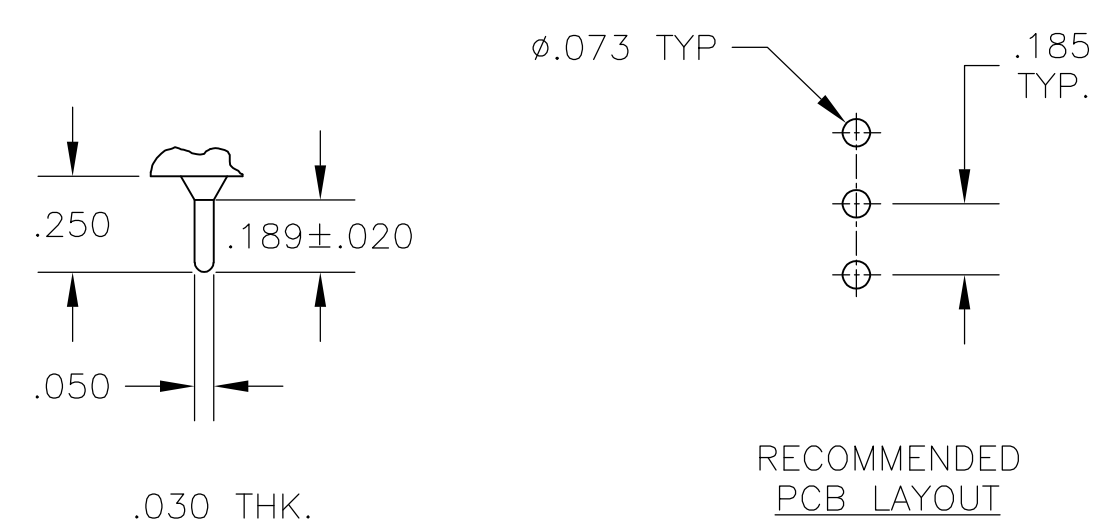
B



V30 V40 5  
VERTICAL SUPPORT BRACKET



RECOMMENDED PCB LAYOUT



C PRINTED CIRCUIT

A

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  
B.S.VISWESWARA

CHK  
M.ZITTO

APVD  
P.BROUILLETTE

PRODUCT SPEC  
-

APPLICATION SPEC  
-

WEIGHT  
-

CUSTOMER DRAWING

14APR05

TE Connectivity

GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE,  
2 POSITION FUNCTIONS (01 & 08)

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C=1825136

RESTRICTED TO  
-

SCALE  
2:1

SHEET  
3 of 4

REV  
A7

1825136

B

A



4

3

2

1

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REVISIONS

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

| Alco P/N       | P/N         |
|----------------|-------------|
| A101K1V30B04   | 1825136-1   |
| A101KAB04      | 1825136-2   |
| A101KAQ04      | 1825136-3   |
| A101P3YV30B04  | 1825136-4   |
| A101KCQ04      | 1825136-5   |
| A101KD9AQ04    | 1825136-6   |
| A101KZQ04      | 1825136-7   |
| A101SYAV2B04   | 1825136-8   |
| A101L1D9V30Q04 | 1825136-9   |
| A101L1YZB04    | 1-1825136-0 |
| A101LDZQ04     | 1-1825136-1 |
| A101MD9AB04    | 1-1825136-2 |
| A101MD9AG04    | 1-1825136-3 |
| A101MD9AQ04    | 1-1825136-4 |
| A101MD9AV2B04  | 1-1825136-5 |
| A101MD9AV2G04  | 1-1825136-6 |
| A101MD9AV2Q04  | 1-1825136-7 |
| A101MD9V30B04  | 1-1825136-8 |
| A101MDAQ04     | 1-1825136-9 |
| A101MDAV2B04   | 2-1825136-0 |
| A101MDCG04     | 2-1825136-1 |
| A101MDZQ04     | 2-1825136-2 |
| A101MYCQ04     | 2-1825136-3 |
| A101MYZQ04     | 2-1825136-4 |
| A103SYAV2B04   | 2-1825136-5 |
| A101P3CB04     | 2-1825136-6 |
| A101P3ZQ04     | 2-1825136-7 |
| A101KAV2Q04    | 2-1825136-8 |
| A101MDCQ04     | 2-1825136-9 |
| A101SCWCQ004   | 3-1825136-0 |
| A101SCWZQ04    | 3-1825136-1 |
| A101SD9AB04    | 3-1825136-2 |
| A101SD9AQ04    | 3-1825136-3 |
| A101SD9AV2B04  | 3-1825136-4 |
| A101SD9AV2Q04  | 3-1825136-5 |
| A101SD9V30B04  | 3-1825136-6 |
| A101SD9V30Q04  | 3-1825136-7 |
| A101SDCQ04     | 3-1825136-8 |
| A101SDZQ04     | 3-1825136-9 |
| A101SHZQ04     | 4-1825136-0 |
| A101SY9CQ04    | 4-1825136-1 |
| A101SYAB04     | 4-1825136-2 |
| A101SYAQ04     | 4-1825136-3 |
| A101SYCB04     | 4-1825136-4 |
| A101SYCQ04     | 4-1825136-5 |
| not assigned   | 4-1825136-6 |
| A101SYWQ04     | 4-1825136-7 |
| A101SYZB04     | 4-1825136-8 |

| Alco P/N     | P/N         |
|--------------|-------------|
| A101SYZQ04   | 4-1825136-9 |
| not assigned | 5-1825136-0 |
| not assigned | 5-1825136-1 |
| A101T1ZB04   | 5-1825136-2 |
| A101T1ZQ04   | 5-1825136-3 |
| A101TCQ04    | 5-1825136-4 |
| A101TZQ04    | 5-1825136-5 |
| A108MD9AB04  | 5-1825136-6 |
| not assigned | 5-1825136-7 |
| A108P3CQ04   | 5-1825136-8 |
| A108P3ZQ04   | 5-1825136-9 |
| A108SD9AQ04  | 6-1825136-0 |
| A108SDZQ04   | 6-1825136-1 |
| A108SYCB04   | 6-1825136-2 |
| A108SYCQ04   | 6-1825136-3 |
| A108SYZQ04   | 6-1825136-4 |
| not assigned | 6-1825136-5 |
| A101SYAG04   | 6-1825136-6 |

RECOMMENDED PANEL CUT-OUTS

| BUSHING SIZE | WITHOUT LOCKING RING | WITH STANDARD LOCKING RING |
|--------------|----------------------|----------------------------|
| 1/4          |                      |                            |
| 15/32        |                      |                            |

MATERIALS CHART

| COMPONENT NAME         | BASE MATERIAL             | FINISH           |
|------------------------|---------------------------|------------------|
| CASE                   | DAP, RED, UL94 V-0        |                  |
| FRAME                  | STAINLESS STEEL           |                  |
| B TERMINALS & CONTACTS | COPPER                    | GOLD OVER NICKEL |
| G TERMINALS & CONTACTS | COPPER                    | GOLD OVER SILVER |
| Q TERMINALS & CONTACTS | COPPER                    | .000400 SILVER   |
| ACTUATOR               | PHENOLIC, BLACK, UL94 V-1 |                  |
| LEVER                  | BRASS                     | CHROME           |
| BUSHING                | BRASS                     | NICKEL           |
| SPRING                 | MUSIC WIRE                |                  |
| SUPPORT BRACKET        | BRASS                     | TIN              |
| PIVOT PIN              | STEEL                     | NICKEL           |
| LOCK WASHER            | STAINLESS STEEL           |                  |
| LOCKING RING           | STAINLESS STEEL           |                  |
| NUTS                   | C3604BD BRASS             | NICKEL           |
| TERMINAL SEAL          | EPOXY                     |                  |

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DIMENSIONS:  
INCHES

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± 2°

FINISH

-

DWN  
B.S.VISWESWARA

CHK  
M.ZITTO

APVD  
P.BROUILLETTE

PRODUCT SPEC

APPLICATION SPEC

WEIGHT  
0

CUSTOMER DRAWING

14APR05

TE Connectivity

NAME  
GEMINI A SERIES TOGGLE SWITCH, SINGLE POLE, 2 POSITION FUNCTIONS (01 & 08)

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C-1825136

RESTRICTED TO  
-

SCALE  
3:1

SHEET  
4 of 4

REV  
A7

1825136

B

C

D

A

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