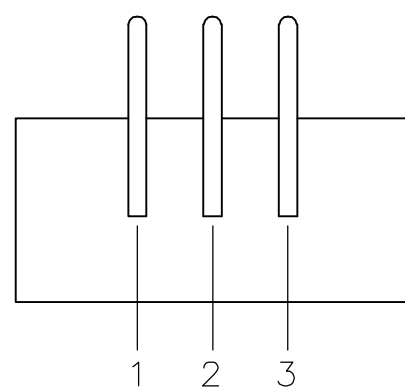
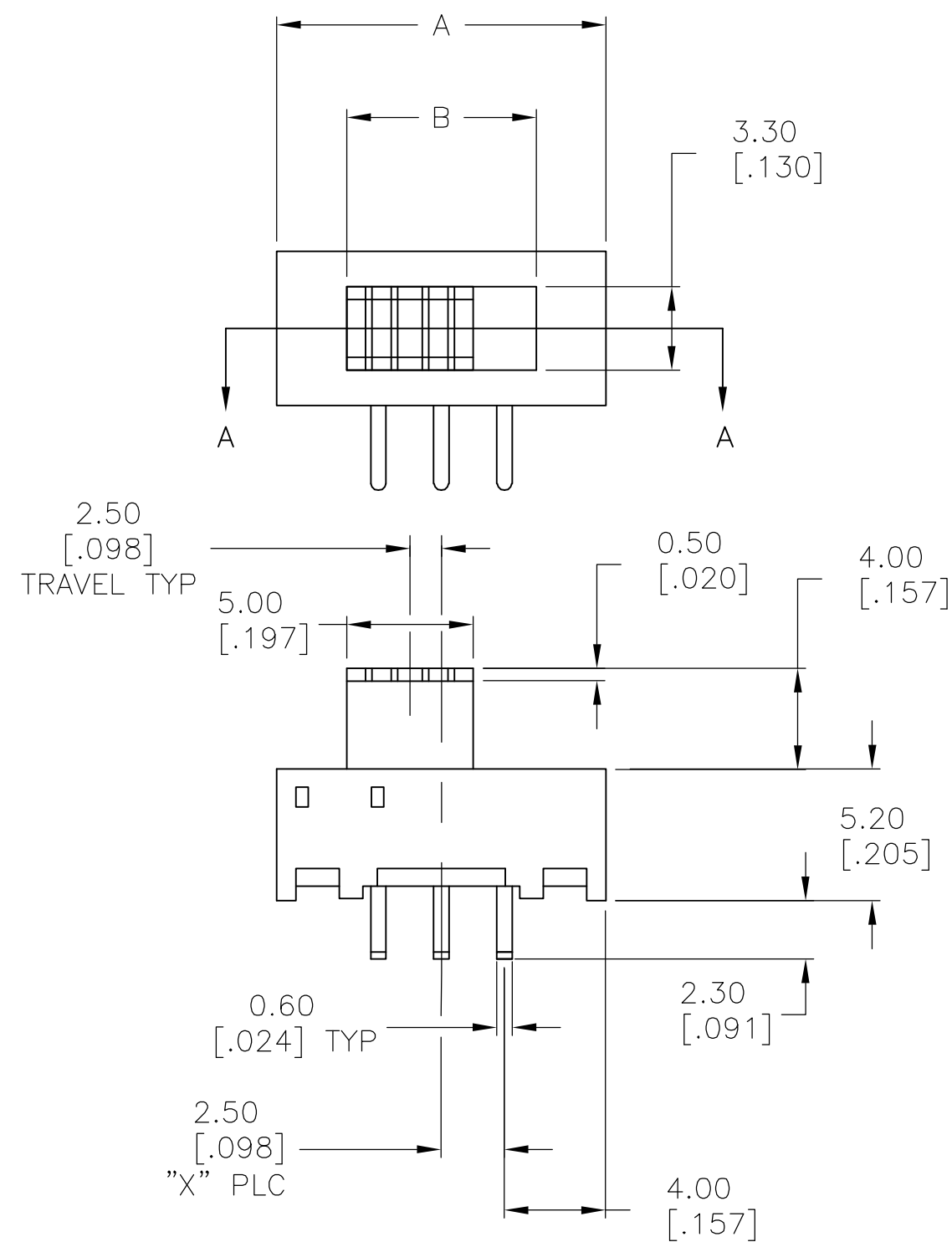
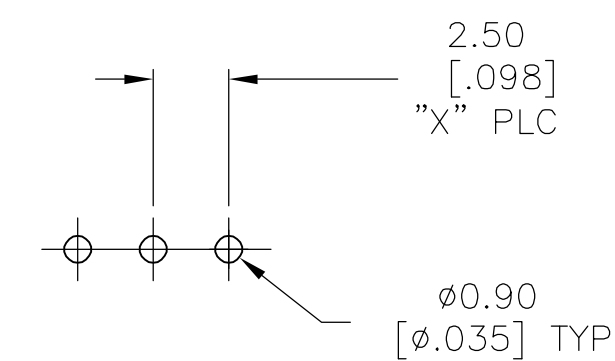
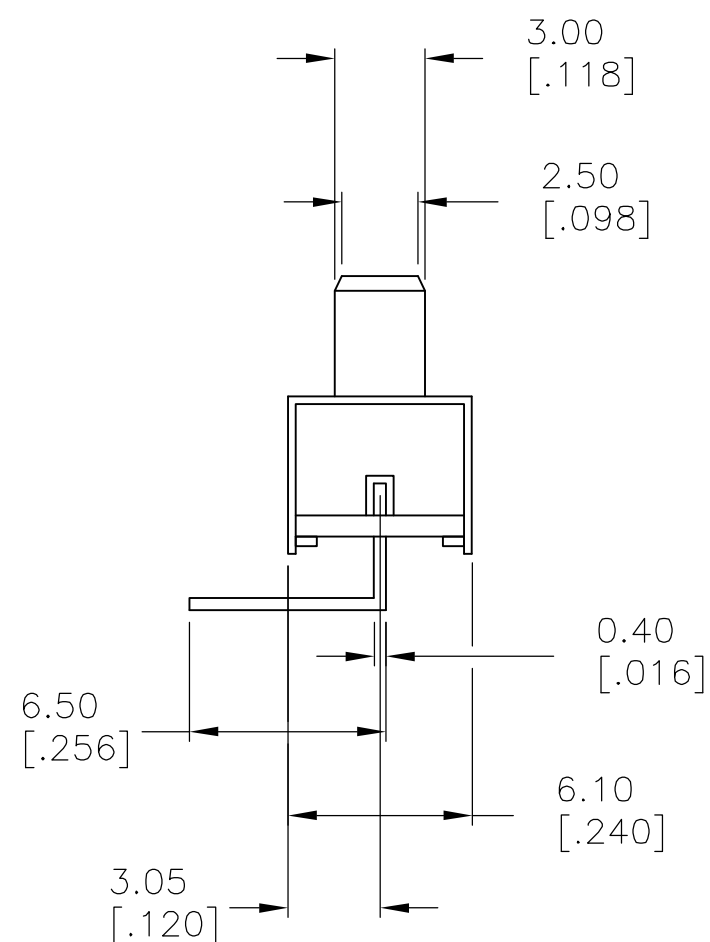




1825160-1 AS SHOWN



### P.C HOLE LAYOUT



SPECIFICATIONS:  
MAKE-BEFORE-BREAK

MATERIALS:

FRAME: STEEL, ZINC PLATE  
ACTUATOR: POM UL94HB, BLACK  
FIXED CONTACT/TERMINAL: COPPER ALLOY,  
SILVER OVER NICKEL PLATE  
MOVING CONTACT: COPPER ALLOY, SILVER CLAD  
COIL SPRING: TEMPERED STEEL WIRE  
BALL- TEMPERED CARBON STEEL  
TERMINAL BOARD: PHENOLIC, UL94HB  
TERMINAL SEAL: PHENOLIC RESIN

ELECTRICAL:

CONTACT RATING: 250 MILLIAMPS@125V AC  
CONTACT RESISTANCE: 30 MILLIOHMS MAX (INITIAL),  
60 MILLIOHMS AFTER TEST  
INSULATION RESISTANCE: 500 MEGOHMS MIN AT 500V DC  
DIELECTRIC STRENGTH: 500 VAC RMS AT SEA LEVEL  
LIFE EXPECTANCY: 10,000 CYCLES MIN. NO LOAD

MECHANICAL:

ACTUATION FORCE: 250 +150/-100 GRAMS  
TRAVEL: 2.49 (.098)

ENVIRONMENTAL:

OPERATING TEMPERATURE: -10 TO +60 DEGREES C  
STORAGE TEMPERATURE: -10 TO +60 DEGREES C  
RESISTANCE TO SOLDER HEAT: 260 C FOR 10 SEC PER 109-202,  
COND. B  
SOLDERABILITY: PER EIA-364-56A, PROCEDURE 3, COND. B

NOTES:

1. ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS)
2. SEE SHEET 2 FOR FUNCTION DIAGRAM
3. ALL PERFORMANCE SPECIFICATIONS WERE TESTED IN ACCORDANCE WITH JIS-C-5441 UNLESS OTHERWISE STATED.

|       |             |             |          |                    |                     |
|-------|-------------|-------------|----------|--------------------|---------------------|
| 6     | 17.50[.689] | 23.01[.906] | SP6T     | STS161RA04         | 1825160-5           |
| 5     | 15.01[.591] | 20.50[.807] | SP5T     | STS151RA04         | 1825160-4           |
| 4     | 12.50[.492] | 18.01[.709] | SP4T     | STS141RA04         | 1825160-3           |
| 3     | 10.01[.394] | 15.50[.610] | SP3T     | STS131RA04         | 1825160-2           |
| 2     | 7.49[.295]  | 13.00[.512] | SPDT     | STS121RA04         | 1825160-1           |
| X PLC | DIM B       | DIM A       | FUNCTION | T&B<br>PART NUMBER | TYCO<br>PART NUMBER |

|                                                                                       |  |                                           |  |                   |  |                                                   |  |                                                            |  |
|---------------------------------------------------------------------------------------|--|-------------------------------------------|--|-------------------|--|---------------------------------------------------|--|------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>B.S.VISWESWARA                     |  | 16MAR05           |  | tyco<br>Electronics                               |  | Tyco Electronics Corporation<br>'s-Hertogenbosch,5222AR-32 |  |
| DIMENSIONS:<br>mm [INCHES]                                                            |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |  | CHK<br>M.S.SARVER |  | APVD                                              |  | NAME                                                       |  |
|  |  | 0 PLC ± -                                 |  | PRODUCT SPEC      |  | SLIDE SWITCH,<br>STS121RA TO STS161RA SERIES<br>- |  |                                                            |  |
|                                                                                       |  | 1 PLC ± -                                 |  | -                 |  |                                                   |  |                                                            |  |
|                                                                                       |  | 2 PLC ± 0.20 [.008]                       |  | -                 |  |                                                   |  |                                                            |  |
| 3 PLC ± -                                                                             |  | APPLICATION SPEC                          |  | SIZE              |  | CAGE CODE                                         |  | DRAWING NO                                                 |  |
| 4 PLC ± -                                                                             |  | -                                         |  | A2                |  | 00779                                             |  | C-1825160                                                  |  |
| ANGLES                                                                                |  | ± ± -                                     |  | WEIGHT            |  | -                                                 |  | RESTRICTED TO                                              |  |
| MATERIAL                                                                              |  | FINISH                                    |  | -                 |  | -                                                 |  | -                                                          |  |
| -                                                                                     |  | -                                         |  | CUSTOMER DRAWING  |  | SCALE                                             |  | SHEET                                                      |  |
|                                                                                       |  |                                           |  |                   |  | 4:1                                               |  | 1 OF 2                                                     |  |
|                                                                                       |  |                                           |  |                   |  |                                                   |  | REV A1                                                     |  |

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

PART NUMBER

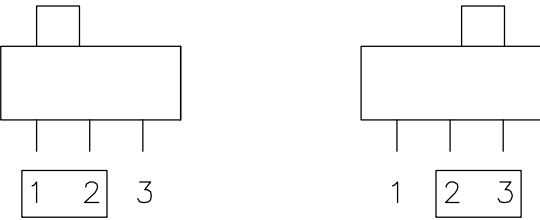
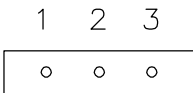
FUNCTION

BOTTOM VIEW

FUNCTION DIAGRAM

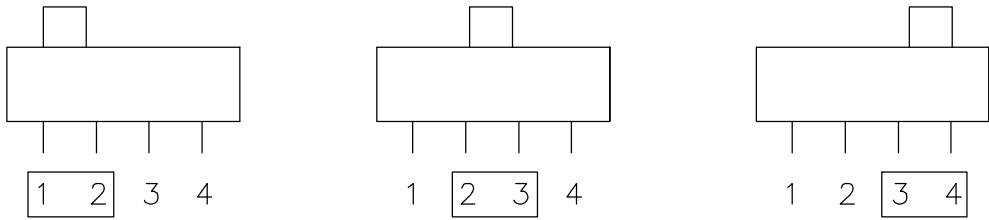
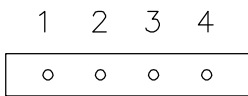
1825160-1

SPDT



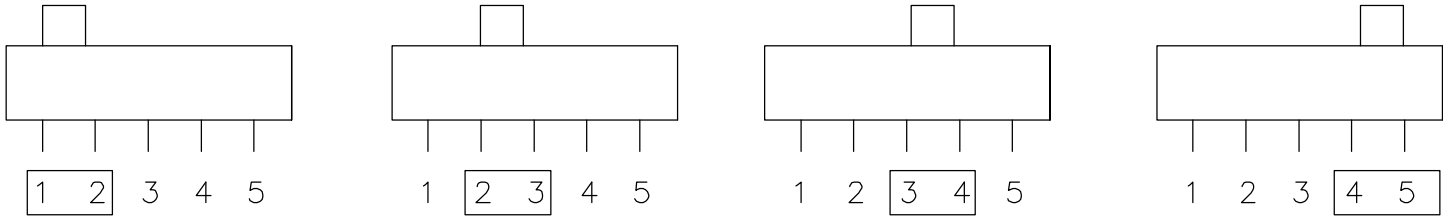
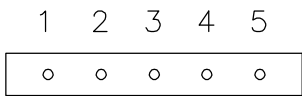
1825160-2

SP3T



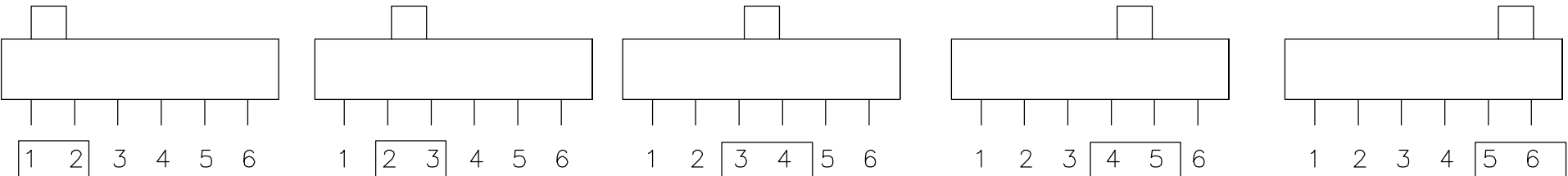
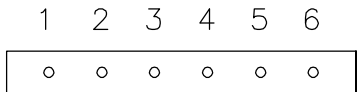
1825160-3

SP4T



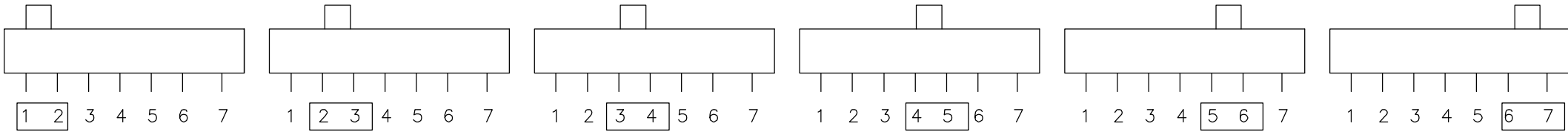
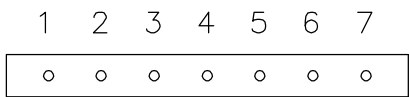
1825160-4

SP5T



1825160-5

SP6T



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm [INCHES]

MATERIAL  
—

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± —

1 PLC ± —

2 PLC ± 0.20 [.008]

3 PLC ± —

4 PLC ± —

ANGLES ± —

FINISH —

DWN  
B.S.VISWESWARA

CHK  
M.S.SARVER

APVD  
—

PRODUCT SPEC  
—

APPLICATION SPEC  
—

WEIGHT  
—

CUSTOMER DRAWING

16MAR05

**tyco**  
**Electronics**

Tyco Electronics Corporation  
's—Hertogenbosch,5222AR—32

NAME  
SLIDE SWITCH,  
STS121RA TO STS161RA SERIES

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C=1825160

RESTRICTED TO  
—

SCALE  
1:1

SHEET  
2

OF  
2

REV  
A1

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Authorized Distributor

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[STS131RA04](#) [STS141RA04](#) [STS151PC04](#) [STS1400RA04](#) [STS141PC04](#)