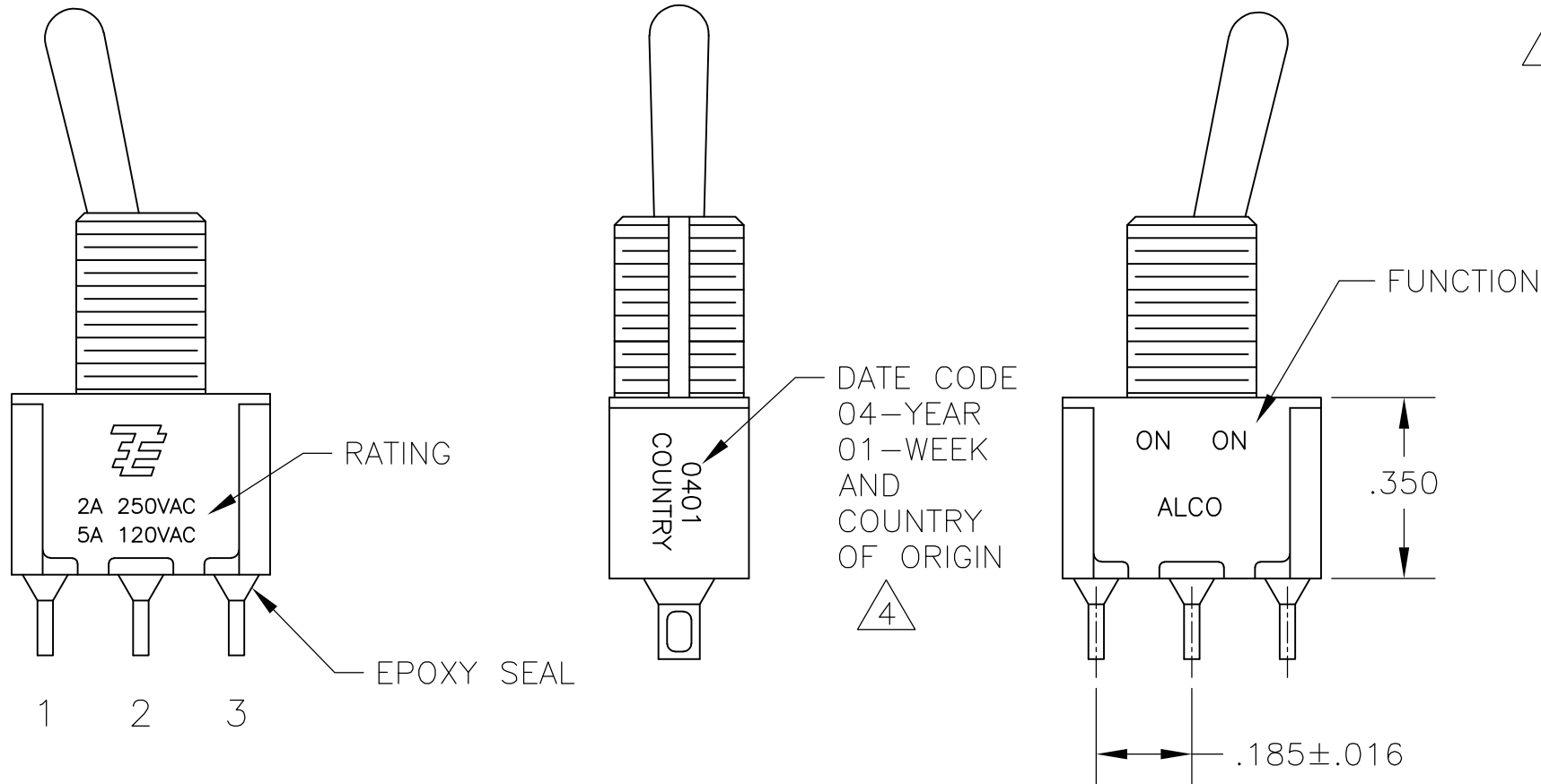
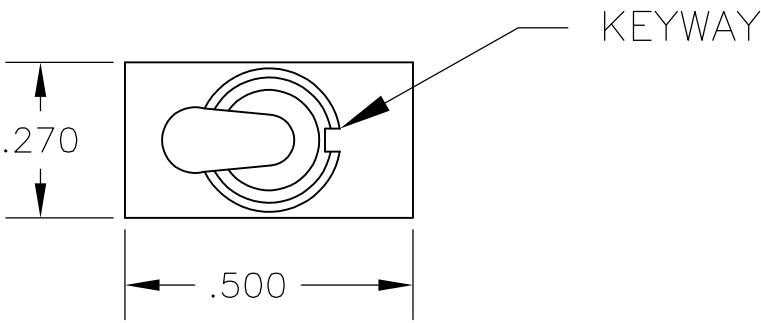


REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A7	REVISED PER ECR-16-004460	30MAR2016	RS	RH

- 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
01	ON	NONE	ON
03	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			

PART NUMBER SEQUENCE CHART

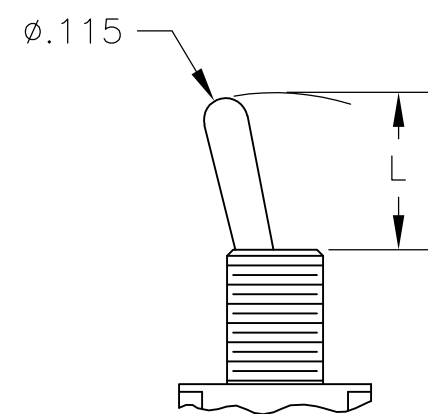
PART NUMBER SEQUENCE CHART						
MODEL	FUNCTION	TOGGLE	BUSHING	TERMINAL	CONTACT	RoHS
A1	01	K	CW	A	B	04
	08	K1	D	AV2	G	
		L	D9	C	Q	
		L1	H	V30		
		L2	Y	V40		
		M	Y9	W		
		P3		W4		
		S		Z		
		T		Z3		
		T1				

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

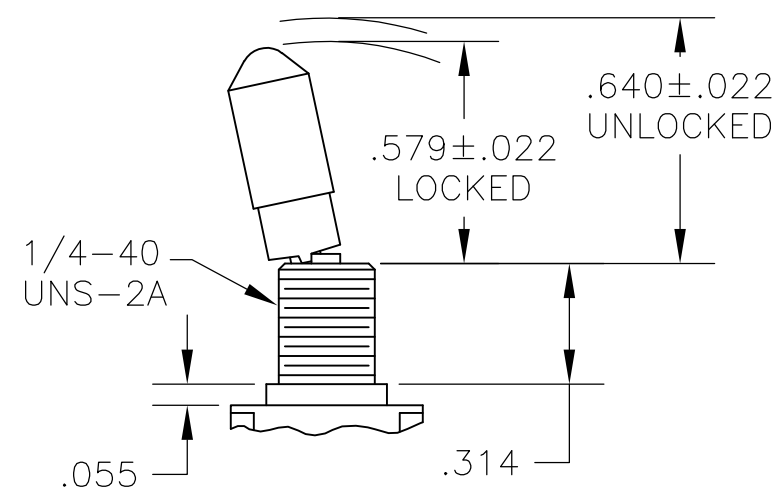
M SHORT



S STANDARD

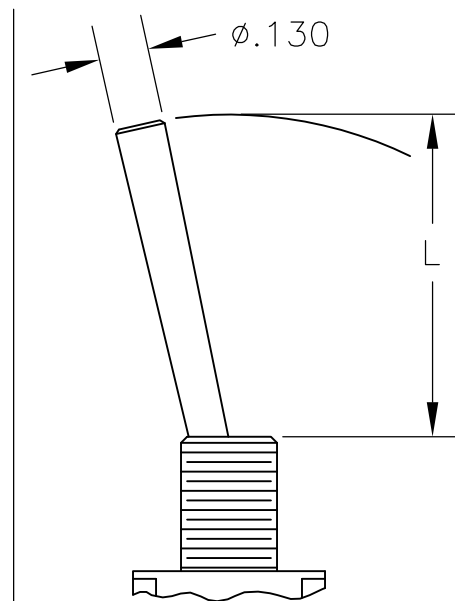
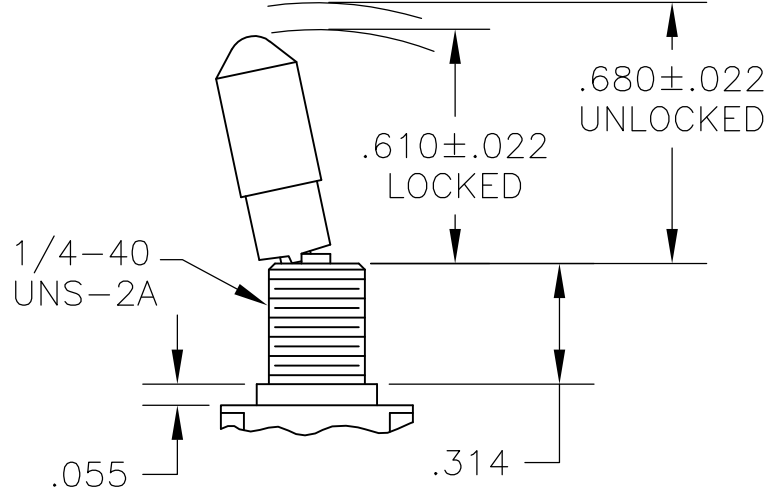
K

NO BUSHING OPTION NEEDED



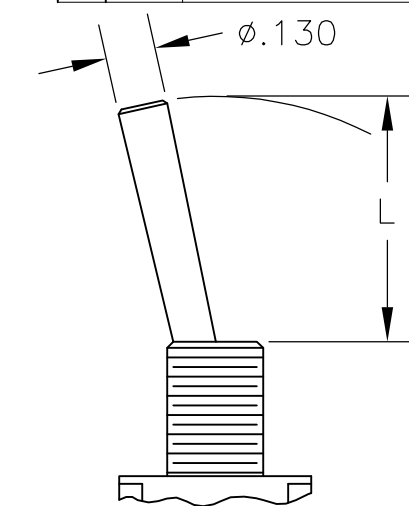
K1

NO BUSHING OPTION NEEDED

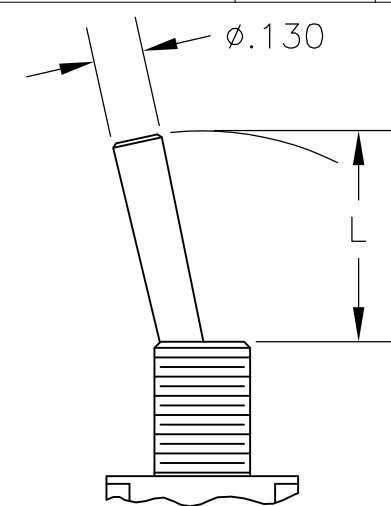


L LEVER

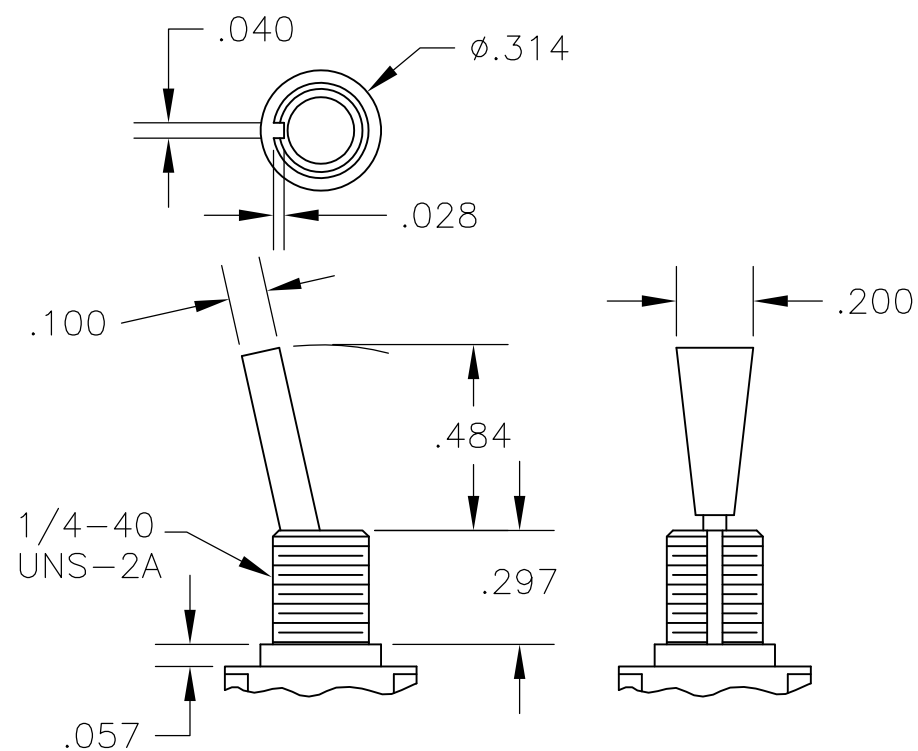
DIM L	BUSHING TYPE	DIM L	BUSHING TYPE	DIM L	BUSHING TYPE
.840	Y, H	.640	Y, H	.550	Y, H
.910	D, D9	.710	D, D9	.620	D, D9



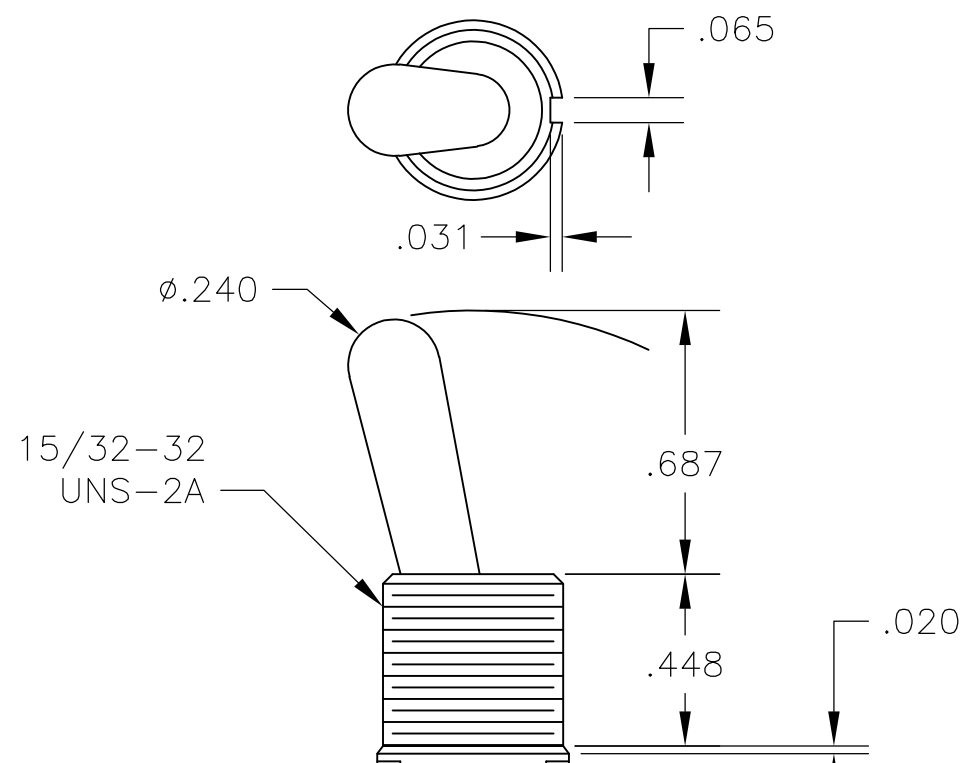
L1 LEVER



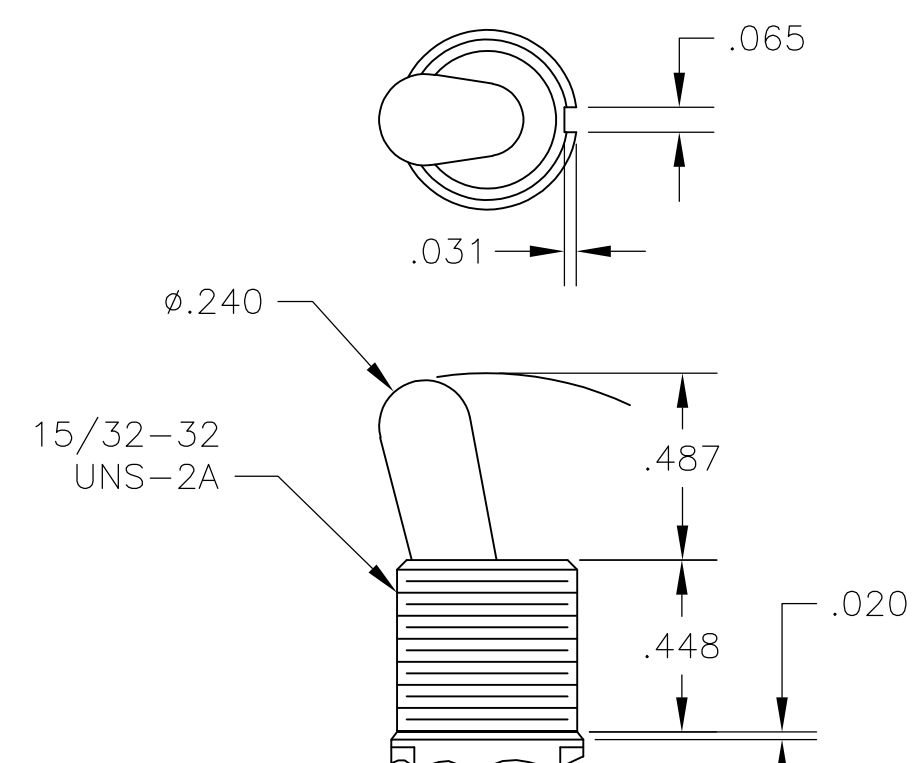
L2 LEVER



P3 NO BUSHING OPTION NEEDED



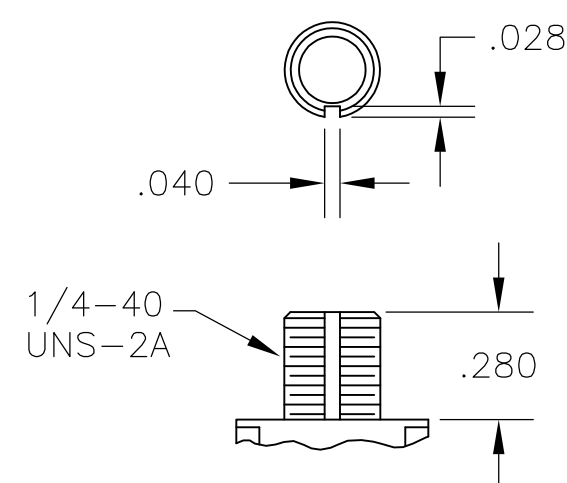
☐ NO BUSHING OPTION NEEDED



T1 NO BUSHING OPTION NEEDED

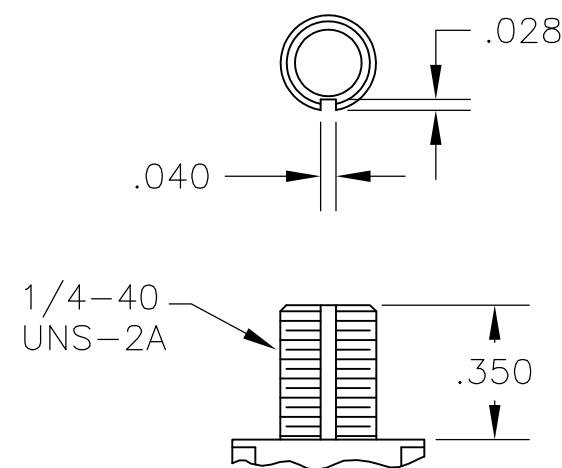
D THREADED

D9 UNTHREADED

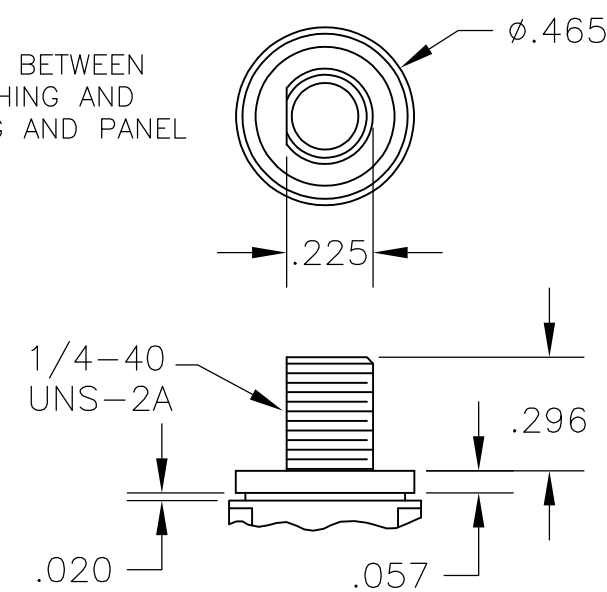


Y THREADED

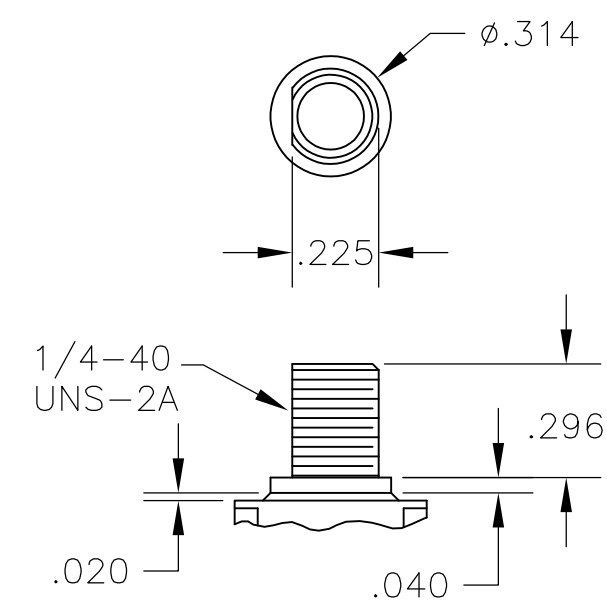
Y9 UNTHREADED



CONTAINS O-RING BETWEEN
TOGGLE AND BUSHING AND
BETWEEN BUSHING AND PANEL



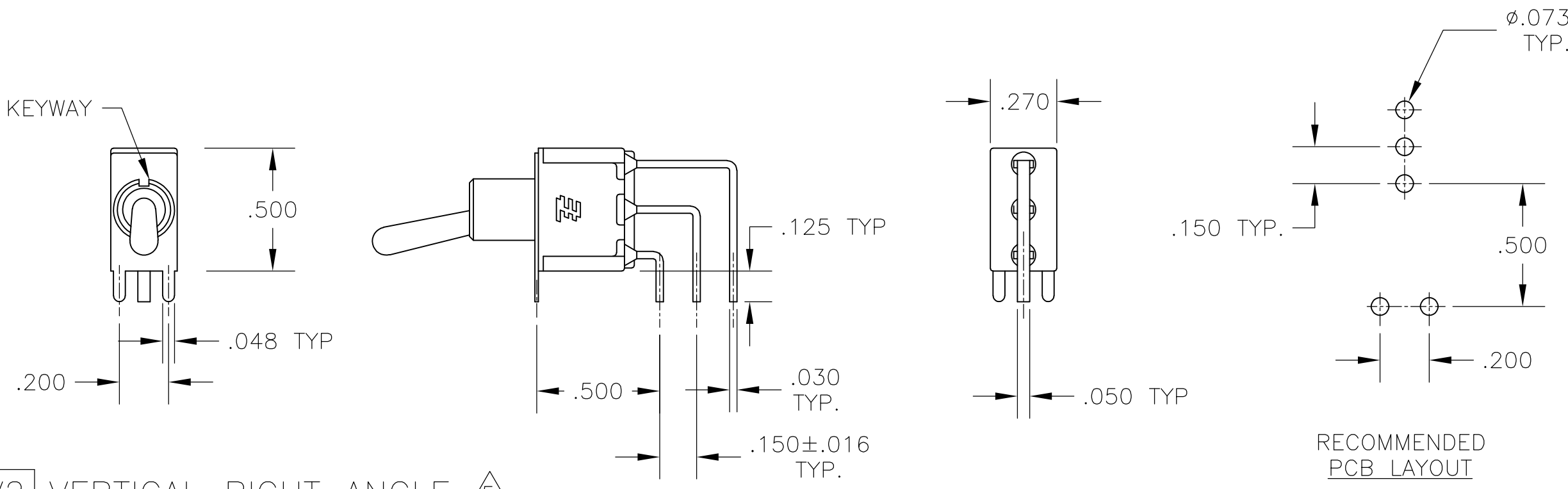
CW THREADED SPLASHPROOF



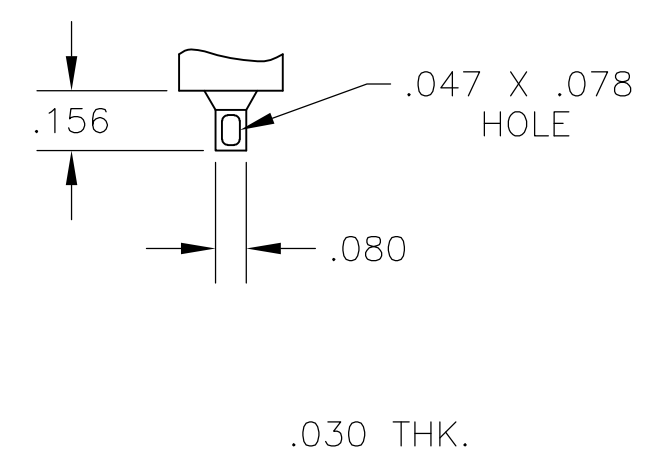
☐ HIGH TORQUE

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

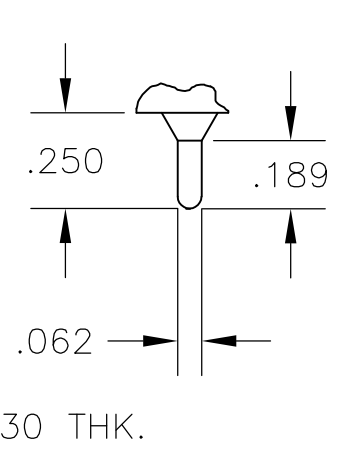
D



AV2 VERTICAL RIGHT ANGLE

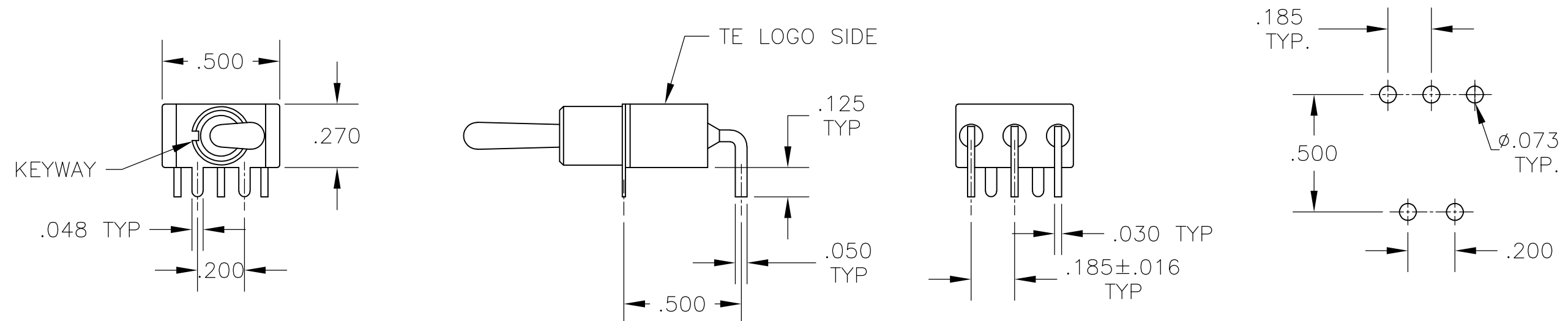


Z WIRE LUG

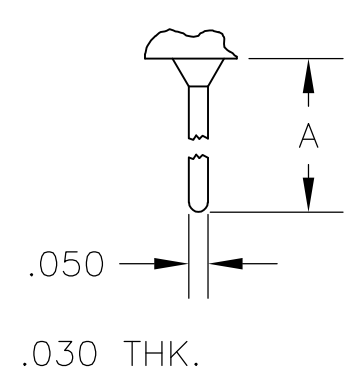


Z3 QUICK CONNECT

C



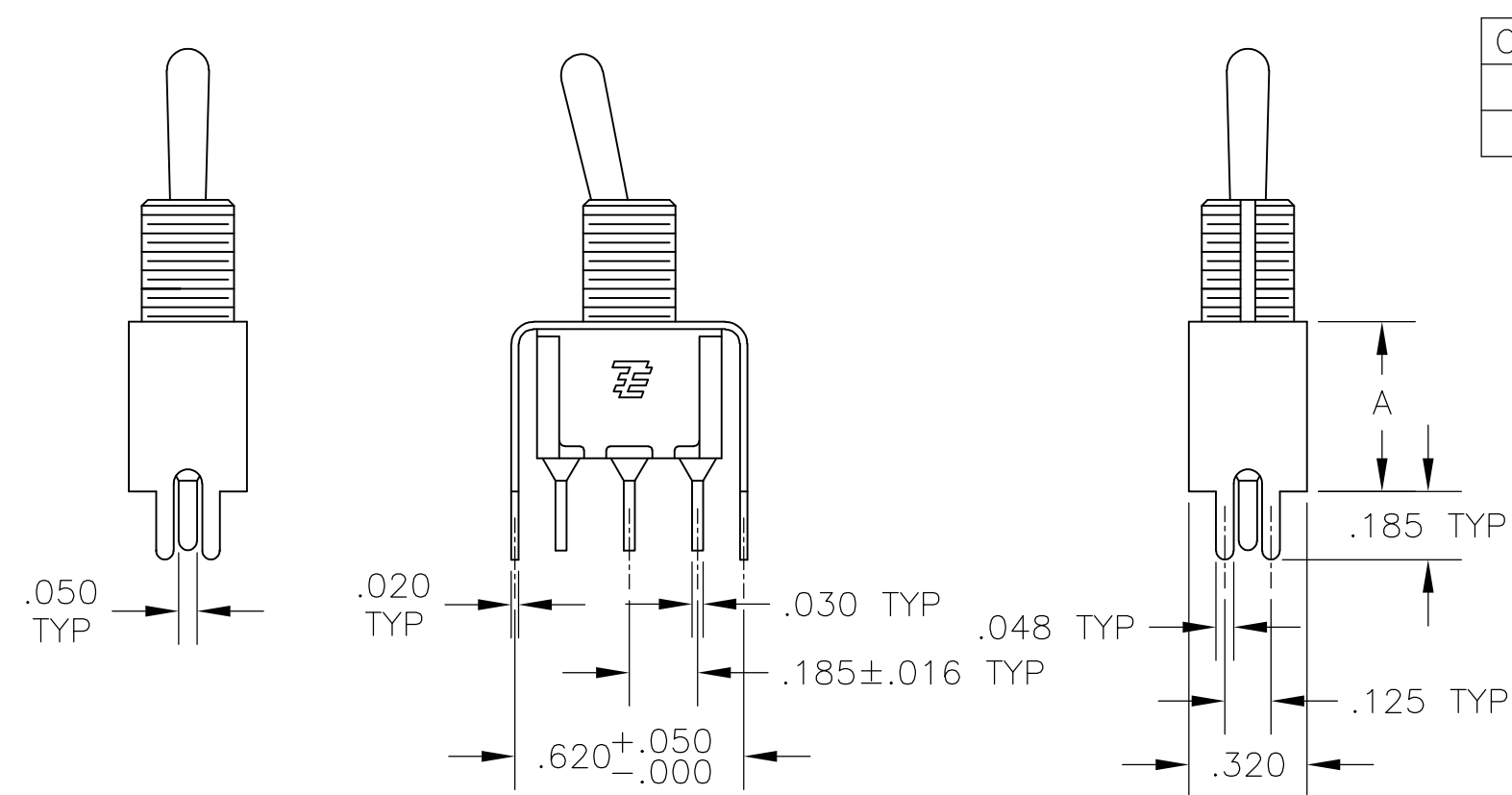
A RIGHT ANGLE



W W4 WIRE WRAP

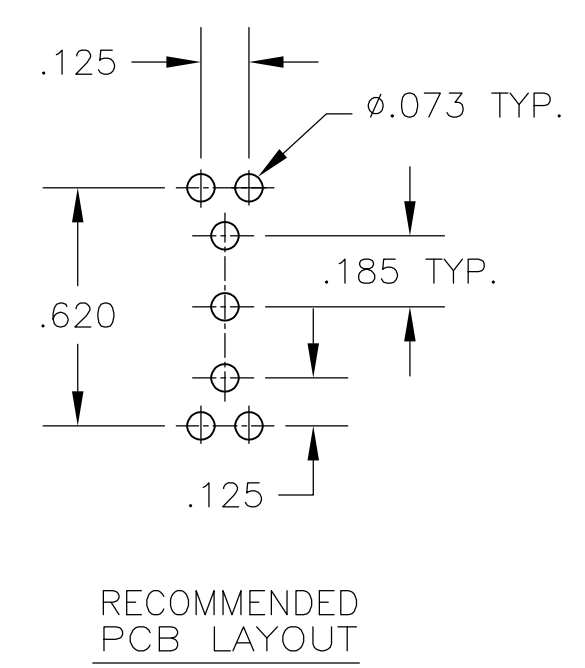
OPTION	DIM A
W	.736
W4	1.062

B

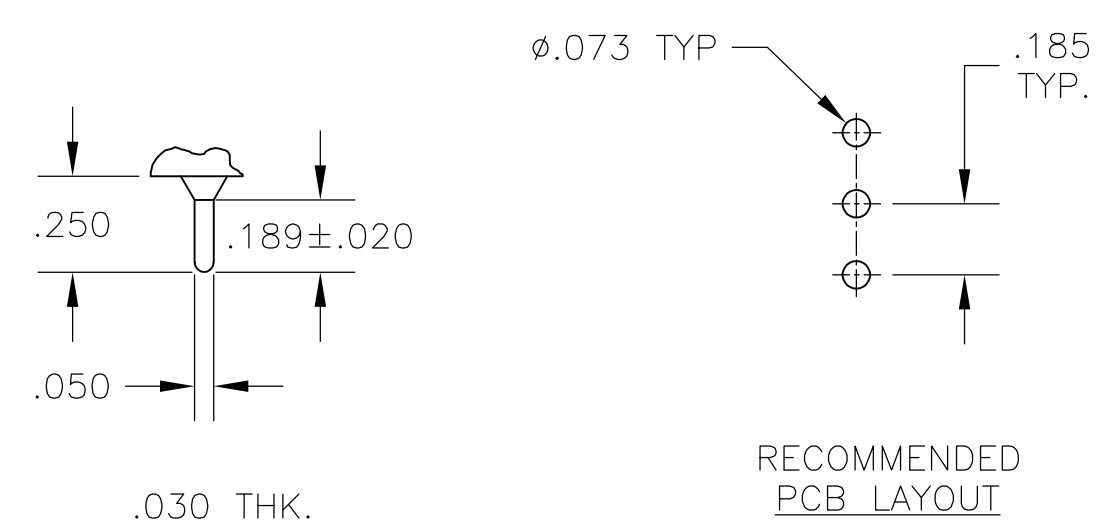


V30 V40 VERTICAL SUPPORT BRACKET

OPTION	DIM A
V30	.460
V40	.630



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

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
2:1

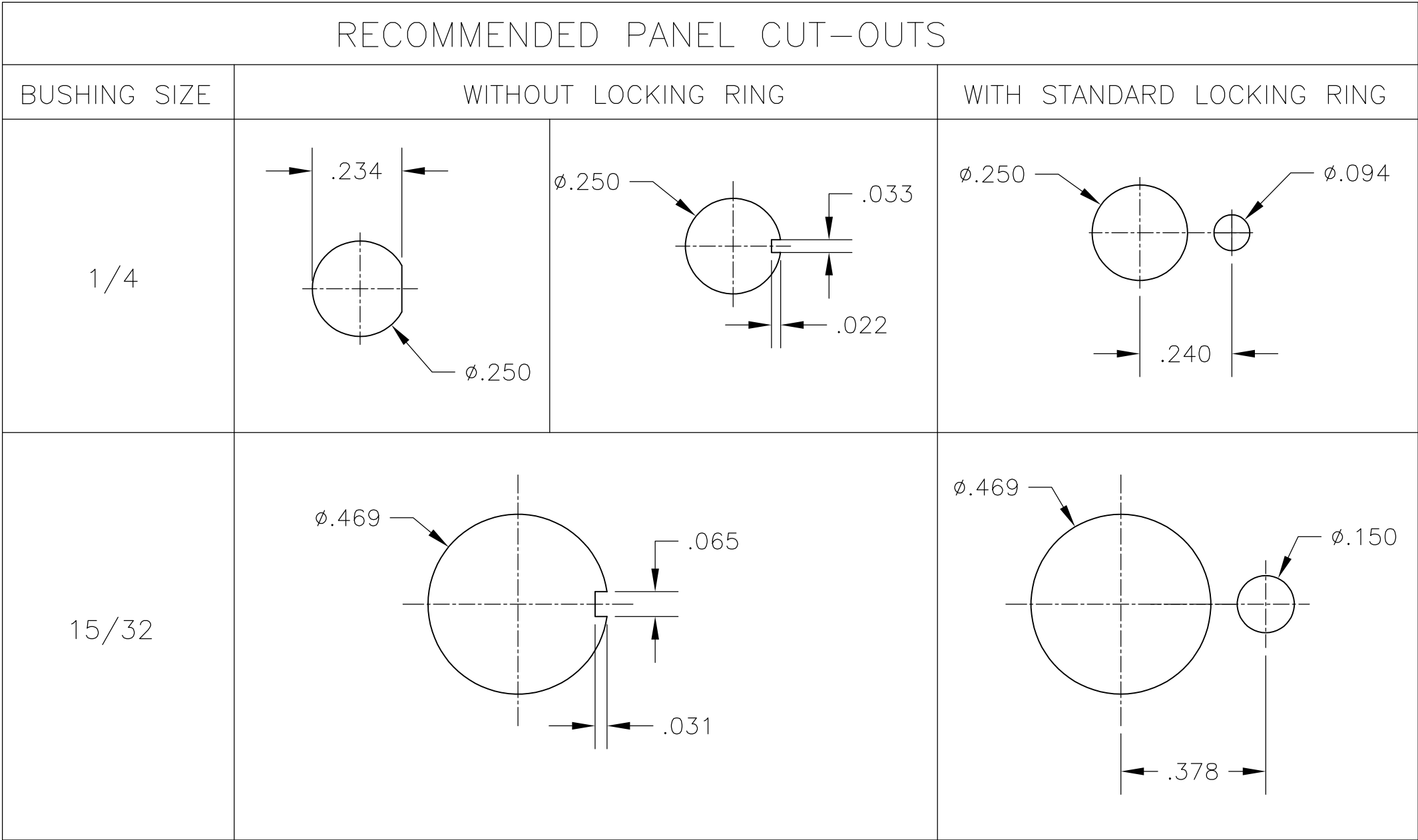
SHEET
3 of 4

REV
A7

TE Connectivity

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



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
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PRODUCT SPEC

APPLICATION SPEC

WEIGHT
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CUSTOMER DRAWING

14APR05

TE Connectivity

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

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DRAWING NO
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RESTRICTED TO
-

SCALE
3:1

SHEET
4 of 4

REV
A7