

CONVERSION CHART	
INCH	MM
.002	0.05
.012	0.30
.022	0.56
.028	0.71
.039	0.99
.059	1.50
.079	2.00
.098	2.49
.100	2.54
.134	3.40
.138	3.51
.193	4.90
.217	5.51
.236	6.00
.295	7.50
.315	8.00
.374	9.50
.394	10.01
.709	18.01
.748	19.00
.866	22.00
.945	24.00
1.000	25.40

BCD COMPLEMENT CODE 137										
POS	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X

BCD CODE 131										
POS	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X

DECIMAL CODE 111										
POS	0	1	2	3	4	5	6	7	8	9
C	X	X	X	X	X	X	X	X	X	X
0	X									
1		X								
2			X							
3				X						
4					X					
5						X				
6							X			
7								X		
8									X	
9										X

CHANGE OVER SWITCH CODE 400			
POS	C	A	A-
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X
-	X	X	X

HEXADECIMAL CODE 301																
POS	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

MODEL NUMBER	CODE	DESCRIPTION	CHAR.
DPSB111AK	111	DECIMAL CODE (1 of 10)	0-9
DPSB131AK	131	1-2-4-8 BCD CODE	0-9
DPSB131AL	131	BCD, EXTENDED PCB FOR DIODES	0-9
DPSB137AK	137	BCD, COMPLEMENT CODE	0-9
DPSB137AL	137	BCD, COMPLEMENT, EXT. PCB FOR DIODE	0-9
DPSB400AK	400	SPOT, REPEATING READOUT, 10 POS.	+/-
DPSB131AKLS	131	BCD CODE, PC PINS AT REAR	0-9
DPSB131AKLSL	131	BCD CODE, RIGHT ANGLE PC PINS	0-9
DPSB137AKLS	137	BCD COMPLEMENT CODE, PC PINS	0-9
DPSB137AKLSL	137	BCD COMPLEMENT CODE, RIGHT ANGLE PC PINS	0-9
DPSB301AK	301	HEXIDECIMAL CODE (16 POS.)	0-9, A-F
DPSB301AKLS	301	HEXIDECIMAL CODE (16 POS.) PC PINS	0-9, A-F
DPSB301AKLSL	301	HEXIDECIMAL CODE (16 POS.) RIGHT ANGLE PC PINS	0-9, A-F
DPSB400AKLS	400	SPOT, 10 POS. REPEATING READOUT	+/-
DPSB400AKLSL	400	SPOT, 10 POS. REPEATING READOUT RIGHT ANGLE PC PINS	+/-

**SPECIFICATIONS:**

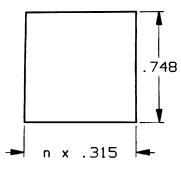
**MATERIALS:**  
CASE: PPO, BLACK MATTE FINISH.  
ACTUATOR BUTTONS: PPO, BLACK MATTE FINISH.  
WINDOW: THERMOPLASTIC RESIN.  
PCB: GLASS EPOXY TYPE, FR4  
MOVING CONTACT: COPPER ALLOY, GOLD PLATE OVER NICKEL.  
FIXED CONTACT: COPPER, GOLD PLATE OVER NICKEL.  
TERMINALS: COPPER, GOLD PLATE OVER NICKEL.

**ELECTRICAL:**  
CONTACT RATING: 0.4 VA @ 20 VDC OR PEAK AC  
INITIAL CONTACT RESISTANCE: 0.15 OHMS MAX.  
LIFE EXPECTANCY: MORE THAN 10<sup>8</sup> OPERATIONS

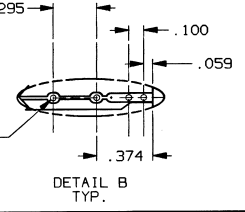
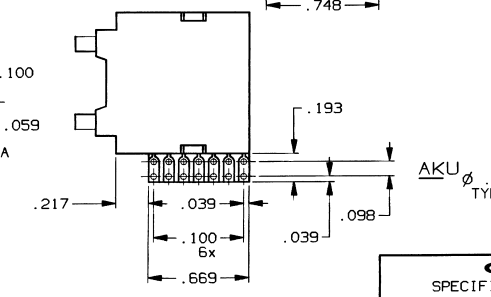
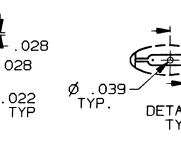
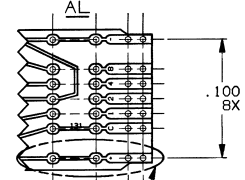
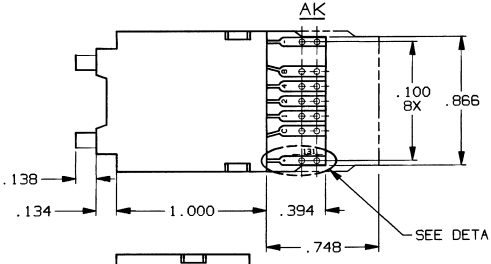
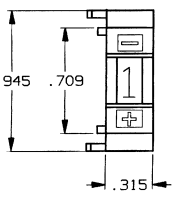
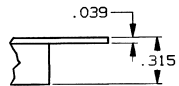
**MECHANICAL:**  
ACTUATION FORCE: APPROX. 14 oz. (4 N)

**ENVIRONMENTAL:**  
OPERATING TEMPERATURE: -4°F TO +176°F (-20°C TO +80°C)

- NOTES:**
- INTERPRET DRAWING PER ASME Y14.5M-1994.
  - ASSEMBLED PARTS TO BE PACKAGED FOR SHIPMENT IN ITEMS ANTISTATIC TREATED TO MEET THE REQUIREMENTS OF AUGAT SPECIFICATION NO. SPEC 224.
  - CHARACTER COLOR: WHITE ON BLACK BACKGROUND. CHARACTER HEIGHT: 10/16 DIGIT. .193/.134.



RECOMMENDED HOLE LAYOUT  
TOLERANCE ±.002 UNLESS OTHERWISE NOTED



MARKING DETAIL

131	+	0	1	2	3	4	5	6	7	8	9	-
137	+	0	1	2	3	4	5	6	7	8	9	-
301	+	0	1	2	3	4	5	6	7	8	9	-
400	+	0	1	2	3	4	5	6	7	8	9	-

MARKING DETAIL

131	C	1	1	1	1	1	1	1	1	1	1	1
137	C	1	1	1	1	1	1	1	1	1	1	1
301	C	1	1	1	1	1	1	1	1	1	1	1
400	C	1	1	1	1	1	1	1	1	1	1	1

**OUTLINE DRAWING**  
SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE

THIRD ANGLE PROJECTION TOLERANCES (EXCEPT AS NOTED) ANGULAR = ±1/2° DECIMAL .XX = ±.012 DECIMAL .XXX = ±.012 DECIMAL .XXXX = ±.012 AUGAT CONFIDENTIAL This document contains information which is the exclusive property of Augat Inc. Distribution, reproduction or use by others is not permitted without the expressed written consent of Augat Inc.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT FILE NAME: 80023OUT DTRECTORY: CODSWTCH MATERIAL: SEE SPECIFICATIONS ABOVE FINISH: SEE SPECIFICATIONS ABOVE	ORIGINAL DATE OF DRAWING: 3/25/81 DRAWN: V. J. MARTIN DATE: 3/25/81 CHECKED: B. BUCKHEIT DATE: 3/26/81 APPROVED: D. SARKISIAN DATE: 1/7/93 CODE IDENT. NO. 91506 DWG. SIZE C NEXT ASSY:	<b>AUGAT</b> P. O. Box 2510 452 John Dietsch Blvd. INC. Attleboro, MA. 02763 <b>TITLE: OUTLINE DRAWING</b> <b>CODE SWITCH</b> <b>DUAL PUSHBUTTON</b> <b>DPS-8 SERIES</b> DWG. NO. 80023-SD REV. 3 PRODUCT CODE: H13 SCALE: 2/1 SHEET 1 OF 1
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REV.	DATE	DESCRIPTION
2	1/26/93	REDRAWN
1	1/17/93	REVISED & RE-DRAWN