

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

DP58111AK	111	DECIMAL CODE (1 of 10)	0-9
DP58131AK	131	1-2-4-8 BCD CODE	0-9
DP58131AL	131	BCD, EXTENDED PCB FOR DIODES	0-9
DP58137AK	137	BCD, COMPLEMENT CODE	0-9
DP58137AL	137	BCD, COMPLEMENT, EXT. PCB FOR DIODE	0-9
DP58400AK	400	SPOT, REPEATING READOUT, 10 POS.	+/-
DP58131AKLS	131	BCD CODE, PC PINS AT REAR	0-9
DP58131AKLSL	131	BCD CODE, RIGHT ANGLE PC PINS	0-9
DP58137AKLS	137	BCD COMPLEMENT CODE, PC PINS	0-9
DP58137AKLSL	137	BCD COMPLEMENT CODE, RIGHT ANGLE PC PINS	0-9
DP58301AK	301	HEXIDECIMAL CODE (16 POS.)	0-9, A-F
DP58301AKLS	301	HEXIDECIMAL CODE (16 POS.) PC PINS	0-9, A-F
DP58301AKLSL	301	HEXIDECIMAL CODE (16 POS.) RIGHT ANGLE PC PINS	0-9, A-F
DP58400AKLS	400	SPOT, 10 POS. REPEATING READOUT	+/-
DP58400AKLSL	400	SPOT, 10 POS. REPEATING READOUT RIGHT ANGLE PC PINS	+/-
MODEL NUMBER	CODE	DESCRIPTION	CHAR.

**SPECIFICATIONS:**

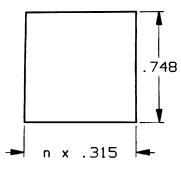
**MATERIALS:**  
CASE: PPO, BLACK MATTE FINISH.  
ACTUATOR BUTTONS: PPO, BLACK MATTE FINISH.  
WINDOW: THERMOPLASTIC RESIN.  
PCB: GLASS EPOXY TYPE, FR4  
MOVING CONTACT: COPPER ALLOY, GOLD PLATE OVER NICKEL.  
FIXED CONTACT: COPPER, GOLD PLATE OVER NICKEL.  
TERMINALS: COPPER, GOLD PLATE OVER NICKEL.

**ELECTRICAL:**  
CONTACT RATING: 0.4 VA @ 20 VDC OR PEAK AC  
INITIAL CONTACT RESISTANCE: 0.15 OHMS MAX.  
LIFE EXPECTANCY: MORE THAN 10<sup>6</sup> OPERATIONS

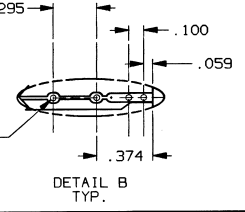
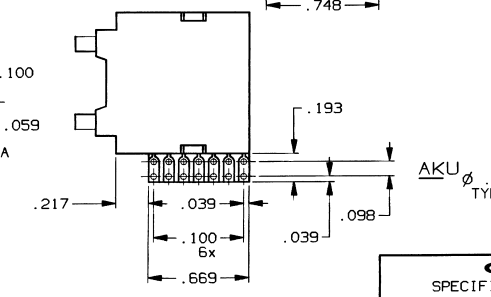
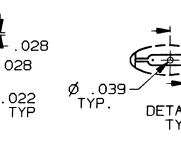
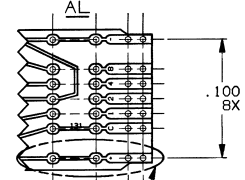
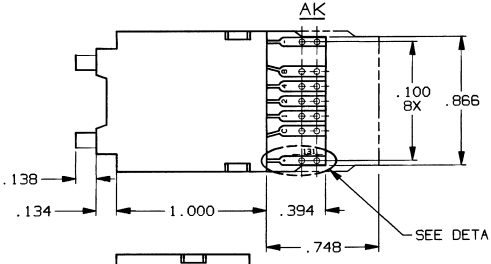
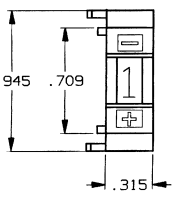
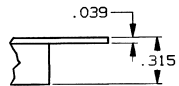
**MECHANICAL:**  
ACTUATION FORCE: APPROX. 14 oz. (4 N)

**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	+	C	1	2	4	8	-	-
137	+	C	1	2	4	8	-	-
301	+	C	1	2	4	8	-	-
400	+	C	1	2	4	8	-	-

MARKING DETAIL

131	C	1	2	4	8	-	-
137	C	1	2	4	8	-	-
301	C	1	2	4	8	-	-
400	C	1	2	4	8	-	-

**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	ORIGINAL DATE OF DRAWING: 3/25/81
	FILE NAME: 80023OUT DTREACTORY: CODSWTCH	DRAWN: V. J. MARTIN DATE: 3/25/81
MATERIAL: SEE SPECIFICATIONS ABOVE	CHECKED: B. BUCKHEIT DATE: 3/26/81	
FINISH: SEE SPECIFICATIONS ABOVE	APPROVED: D. SARKISIAN DATE: 1/7/93	
	CODE IDENT. NO. 91506	DWG. SIZE C
	NEXT ASSY:	

**AUGAT** P. O. Box 2510  
452 John Dietsch Blvd.  
INC. Attleboro, MA. 02763

**TITLE: OUTLINE DRAWING**  
CODE SWITCH  
DUAL PUSHBUTTON  
DPS-8 SERIES

DWG. NO. 80023-SD  
PRODUCT CODE: H13  
SCALE: 2/1

REV. 3

SHEET 1 OF 1

REV.	DATE	DESCRIPTION
2	1/26/93	REDRAWN
3	1/17/93	REVISED & RE-DRAWN