

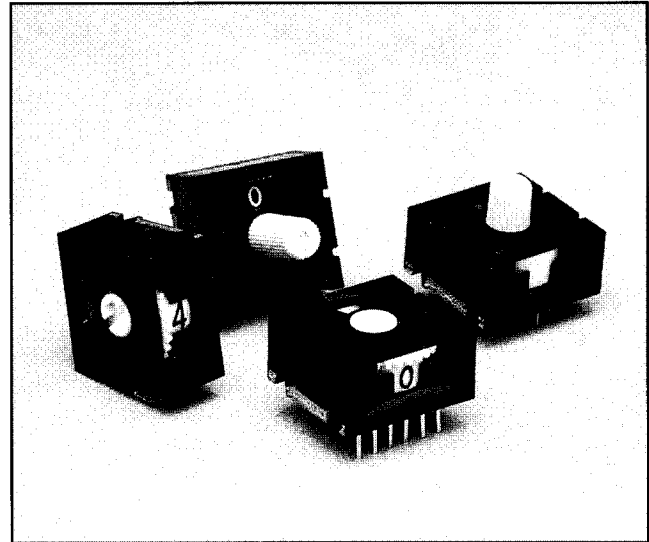


2100 SERIES STRIPSWITCH® PRINTED CIRCUIT BOARD SWITCHES

2100 SERIES

The 2100 series STRIPSWITCH is a P.C. board mounted thumbwheel switch, combining direct decimal to binary conversion in a compact, easy to use package.

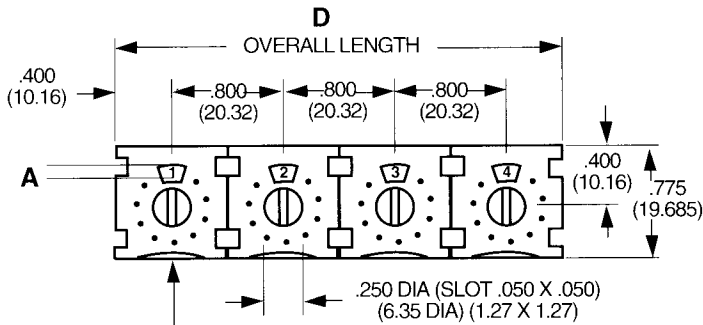
The 2100 series may be ordered in assemblies of one to four switches on a single terminal board, reducing assembly time and costs. The 2100 series offers 10 legend locations, screwdriver or thumbwheel adjustment, or optional extended shafts to accommodate any design specifications. Also offered are a wide variety of 10 and 16 position binary and decimal codes. Optional stop pins and custom rotor markings are also available. This low cost operator interface is covered by EECO's life-time warranty.



SPECIFICATIONS

MECHANICAL	Number of Switching Positions	10 & 16
	Life	250,000 Detents at +25°C
	Rotational Torque (Initial)	1.0 - 4.0 In./Oz.
	Weight	0.15 Oz. Per Station
ELECTRICAL	Maximum Non-Switching Load	3A
	Maximum Switching Load	125 mA at 28 VDC Resistive Load
	Circuit Resistance	100 mΩ Max. Initial 220 mΩ Max. After Life
	Insulation Resistance	1,000 MΩ Min. @ 100 VDC
ENVIRONMENTAL	Dielectric Withstanding Voltage	250 VAC (RMS)
	Operating Temperature	-20°C to + 75°C
MATERIALS	Storage Temperature	-40°C To + 100°C
	Housing and Thumbwheel	Glass Filled Polyester, Rated UL 94 V-O
	Terminal Board	Glass Filled 6/6 Nylon, Rated UL 94 V-O
	Contacts	Copper Alloy, Plated 30 Micro-Inches Gold Min.
	Terminal	Copper Alloy, Plated 150 Micro-Inches 90/10 Tin Lead Min.
	Circuit Disc	
	Base Material	Glass Epoxy
Plating	30 Micro-Inches Gold Min. Over Nickel	

Outline Dimensions 2100 Series



Station "1" is always the leftmost switch when viewing the assembly as indicated.

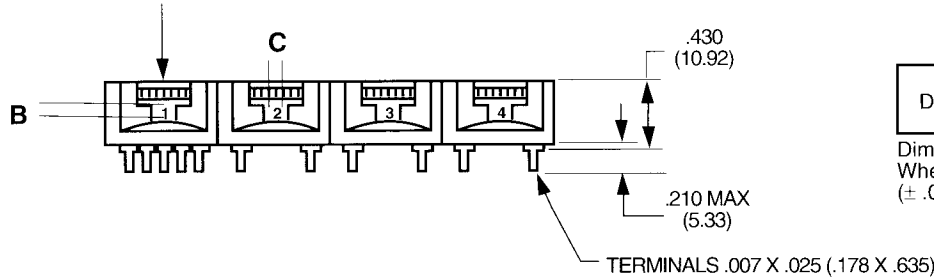
CHARACTER HEIGHT

DIMENSION	10 POSITION	16 POSITION
A	.125 (3.18)	.085 (2.16)
B	.125 (3.18)	.085 (2.16)
C	.140 (3.56)	.085 (2.16)

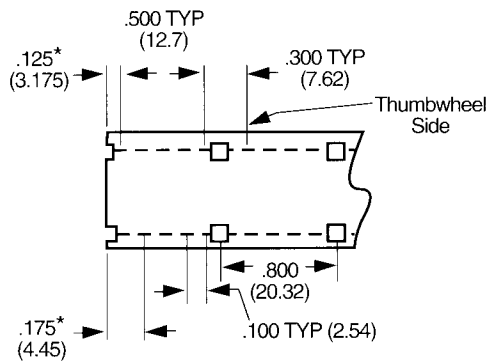
NUMBER STATIONS

	1	2	3	4
D	.80 (20.32)	1.60 (40.64)	2.40 (60.96)	3.20 (81.28)

Dimensions are for single unit assemblies. When butting individual switches, tolerances ($\pm .025$ in.) must be added.

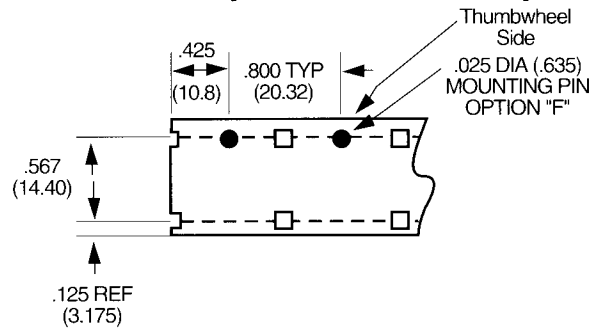


TWO ROWS OF TERMINALS



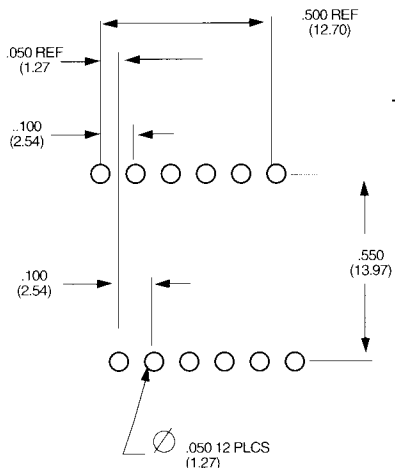
*Terminals are staggered

SINGLE ROW OF TERMINALS (AND WITH F-PINS)

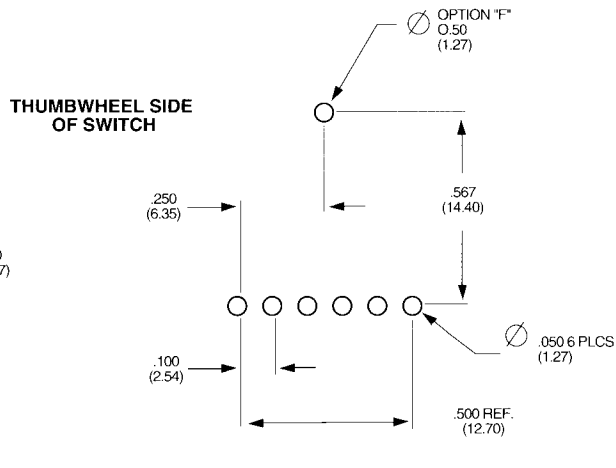


NOTE: Tolerances on all dimensions $\pm .010$ " unless otherwise specified.
() Metric dimensions in mm

PCB LAYOUT - BOTTOM VIEW (DOUBLE ROW TERMINALS)



PCB LAYOUT - BOTTOM VIEW (SINGLE ROW TERMINALS)



Orientation Information 2100 Series

ORIENTATION OF SWITCH

COUNTER CLOCKWISE ROTATION					
ORIENTATION NUMBER	10	40	50	80	90
CLOCKWISE ROTATION					
ORIENTATION NUMBER	20	30	60	70	00

Arrows indicate direction of rotation for increasing numbers. All thumbwheels can be rotated in both directions. Legend is only on the top or side as shown. For marking on top and side, consult factory.

TERMINAL IDENTIFICATION

CODE NUMBER	-01	-02	-11	-12	-17	-19	-28
TRUTH TABLE	A02	B02	S01	C12	C15	C13	C02
CW							
CCW							

CODE NUMBER	-31 & -41	-33 & -34	-56	-57 & -58	-64
TRUTH TABLE	C16	B07	D02	D06	A09
CW					
CCW					

Views shown are of terminal side of switch with thumbwheel opening at top.

CW - Clockwise

CCW - Counter clockwise

Notes:

1. All "C" or "C" terminals must be connected together external to switch.

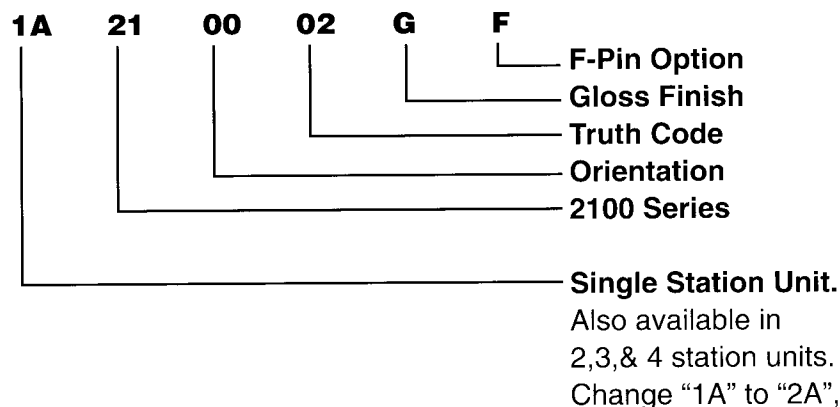
Standard Switch Models 2100 Series

Model Number	Code Description	Number of Positions	Truth Table
1 POLE DECIMAL			
21XX01G	Decimal	10	A02
1 POLE BINARY			
21XX02G	BCD 1-2-4-8	10	B02
21XX12G	BCD 1-2-4-8 Complement Only	10	C12
21XX17G	Complement of 9's Complement	10	C15
21XX19G	9's Complement 1-2-4-8	10	C13
21XX28G	BCD 1-2-4-8 with Complement	10	C02
21XX31G	Binary 1-2-4-8 Complement Only, 0-15 Marking	16	C16
21XX41G	Binary 1-2-4-8 Complement Only, 0-9, A-F Marking	16	C16
21XX33G	Binary 1-2-4-8, 0-15 Marking	16	B07
21XX34G	Binary 1-2-4-8, 0-9, A-F Marking	16	B07
2 POLE BINARY			
21XX56G	BCD 1-2-4-8 with Separate Common to Not True Bits	10	D02
21XX57G	Binary 1-2-4-8 with Separate Common to Not True Bits, 0-15 Marking	16	D06
21XX58G	Binary 1-2-4-8 with Separate Common to Not True Bits, 0-9, A-F Marking	16	D06
SPECIAL PURPOSE CODES			
21XX11G	2 Pole Repeating + and -	10	S01
21XX64G	2 Pole, 4 Position Decimal Repeating, No 0 Output	10	A09

XX . . . to complete model number, replace XX with Orientation Number from previous page and add prefix for number of station(s).

ORDERING INFORMATION

PART NUMBER EXAMPLE



OPTIONS

F-Mounting Pins
T-Alphabet Marking
V-1/2" Extended Shaft (10 pos only)
Y-1/4" Extended Shaft (10 & 16 pos)
 Stops, decimal point, or special marking
 will require a special part number-
 consult factory.

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