



Model 2A Snap Circuit Controllers

Model 2A Snap Circuit Controller and Contact Groups

For Top of Mast Signal Mechanism

Note: For Circuit Controller detail parts and ordering data see Plate HI401.

Relay Type Contacts shown in Figs. B and C are furnished when required on Model 2A Circuit Controllers.

Slip Contact Fig. D is furnished when specified to meet requirements of special circuits.

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
A	Snap Circuit Controller Complete as shown, equipped with Trip Plate Complete Fig. 1, regular Contacts and other parts shown on Plate HI401, as specified.....	34610
A1	as above, except equipped with two Pole Changer Contacts Complete as shown in Fig. B.....	
B	Pole Changer Contact, Relay Type, Complete as shown. Includes (1-2, 1-3, 4-4, 1-5, 6-6, 1-7, 1-8, 1-9A, 1-10, 1-11, 2-12, 1-13, 1-14).....	39927-5
C	Operating Contact, Relay Type, Complete as shown. Includes (4-4, 2-14, 6-6, 1-11, 1-15A, 1-10, 2-12, 1-13).....	39927-2
D	Slip Contact Complete, as shown (4-4, 2-14, 6-6, 1-16, 1-17, 1-18, 1-19, 1-20).....	39927-3
1	Trip Plate Complete, as shown, assembled as a unit including Trip Plate, Plates Washers and Spring. May be used in place of Trip Plate Fig. 29 and Spring Fig. 21 as shown on Plate HI401.....	34616
2	Terminal, as shown.....	38465-1
3	Insulating Block, as shown, for Pole Changer Contact Complete Fig. B.....	38470-1
4	Washer, as shown for Terminal Posts Figs. 5 and 14.....	1225-1
5	Terminal Post, No. 14-24 x 1 $\frac{3}{4}$ " sq. hd., as shown.....	50007
6	Nut, No. 14-24 hex., for Terminal Posts Figs. 5 and 14, as shown.	42839

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
7	Insulating Bushing for Screw Fig. 5, as shown.....	38471-1
8	Contact Arm, front contact, as shown for Pole Changer Contact Complete Fig. B.....	35466-3
9	Contact Arm Complete, as shown. Includes Arm, Adjuster, Nuts and Roller Complete. (1-9a, 1-10, 2-12, 1-13).....	35321-2
9a	Contact Arm only. Same as above, except without Adjuster, Nuts and Roller.....	35330-2
10	Adjuster as shown.....	29967-1
11	Contact Arm, back Contact, as shown.....	35466-2
12	Nut, No. 8-32 hex., as shown for Roller Complete Fig. 13.....	9188
13	Roller Complete. Includes Holder, Pin, Stud and Roller.....	
14	Terminal Post, No. 14-24 x 1 1/4" sq. hd., as shown.....	48565
15	Contact Arm Complete. Includes Arm, Adjuster, Nuts and Roller Complete. (1-15a, 1-10, 2-12, 1-13).....	35321-2
15A	Contact Arm only. Same as above except without Adjuster, Nuts and Roller.....	35330-2
16	Spring Complete, as shown for Slip Contact Fig. D.....	35171
17	Pin for Spring Complete Fig. 16, as shown.....	35178
18	Contact, as shown.....	35172
19	Contact Spring, as shown.....	30829
20	Adjuster for Contact Spring Fig. 19, as shown.....	29967

21 Contact AAA for use with contact comp. fig C

Note: Sixteen Segments are listed in table below for regular and pole changer contacts from which a segment may be selected to open or close circuit at any desired degree of blade travel, making use of screw holes placed in circuit controller drum at factory and the adjustment of springs.

The table shows a number of uses for segments listed by giving the number of degrees where contacts open or close.

Other combinations not shown can be secured from these segments by the use of Fig. W.

Fig. W illustrates a section of circuit controller drum indicating position of contact springs in middle of their adjustment and showing relative location of screw holes in drum for locating contact segment, drum being shown in stop position of signal.

Thickness of Segment $\frac{3}{32}$ " for Regular Contacts			Going to Clear		Going to Danger		Dwg. No.
Figure	Dimension A	Dimension B	Closes	Opens	Closes	Opens	
X 1	12° 30'	42° 30'	55°			55°	29990
	12° 30'	42° 30'	70°			70°	
X 2	7°	36°					29990-5
X 3	25°	40°					29990-6
X 4	22° 30'	22° 30'		2°	2°		29990-7
X 5	12° 30'	37° 30'	125°			125°	29990-9
X 6	18°	48°	110°			110°	29990-12
	18°	48°	90°			95°	
X 7	27° 30'	25°	85°			85°	29990-13
	27° 30'	25°		5°	5°		
X 8	15°	23°					29990-14
Y 1	28°	35°					29990-1
Y 2	25°	20°		43°	43°		29990-2
	25°	20°		45°	45°		
	25°	20°	47°			47°	
Y 3	33°	40°		26°	26°		29990-3

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Thickness of Segment $\frac{3}{8}$ " for Regular Contacts			Going to Clear		Going to Danger		Dwg. No.
Figure	Dimension A	Dimension B	Closes	Opens	Closes	Opens	
	33°	40°		57°	57°		
	33°	40°	25°			25°	
Y 4	33°	50°		73°	73°		29990-4
Y 5	27° 30'	27° 30'		47°	47°		29990-8
	27° 30'	27° 30'		50°	50°		
	27° 30'	27° 30'	40°			40°	
	27° 30'	27° 30'	42°			42°	
Y 6	11°	37° 30'					29990-11
Z 1	18°	57° 30'		87°	87°		29990-10
Z 2	30°	50°					29990-19

Thickness of Segment $\frac{1}{4}$ " for Relay Type Contacts			Going to Clear		Going to Danger		Dwg. No.
Figure	Dimension A	Dimension B	Closes	Opens	Closes	Opens	
X 9	12° 30'	37° 30'					29990-15
X 10	12° 30'	42° 30'					29990-16
X 11	18°	48°					29990-17
Y 7	10°	40°					29990-18