

Non-Illuminated Selector Switches (Assembled)



Assembled Selector Switches

A S W 3 (1) (L) 20 (N) - 304

Function

S: Selector Switch

Series Designation

W: TW Series

Number of Positions

- 2: 2-Position
- 3: 3-Position
- 4: 4-Position
- 5: 5-Position

Spring Return Action

Blank: Maintained

- 1: Spring return from Right (2 or 3 position)
- 2: Spring return from Left (2 or 3 position)
- 3: 2-Way spring return from Left and Right (3 position only)

Circuit Number

(Standard circuits shown on following pages and 585.)

Contacts Terminal Style

Blank: standard
N: Fingersafe (IP20)

Contact Arrangement Code

- 10: 1NO 01: 1NC
- 20: 2NO 02: 2NC
- 40: 4NO 04: 4NC
- 11: 1NO-1NC 22: 2NO-2NC

Operator Style Code

Blank: Knob Operator
L: Lever Operator
K: Key Operator

- 1. Use only when interpreting part numbers. Do not use for developing part numbers.
- 2. Custom contact configurations available.
- 3. Custom key removable codes available.
- 4. Portions of part number inside () are optional.

Non-Illuminated Selector Switches (Assembled) continued

2-Position Selector Switches

Contact	Style				Part Number		
	Mounting	Operator Position			Maintained	Spring Return from Right	Spring Return from Left
		L	R				
1NO	1 2	0 0	X 0	Knob Lever Key	ASW210 ASW2L10 ASW2K10	ASW2110 ASW21L10 ASW21K10	ASW2210 ASW22L10 ASW22K10
1NC	1 2	X 0	0 0	Knob Lever Key	ASW201-116 ASW2L01-116 ASW2K01-116	ASW2101-116 ASW21L01-116 ASW21K01-116	ASW2201-116 ASW22L01-116 ASW22K01-116
1NO 1NC	1 2	X 0	0 X	Knob Lever Key	ASW211 ASW2L11 ASW2K11	ASW2111 ASW21L11 ASW21K11	ASW2211 ASW22L11 ASW22K11
2NO	1 2	0 0	X X	Knob Lever Key	ASW220 ASW2L20 ASW2K20	ASW2120 ASW21L20 ASW21K20	ASW2220 ASW22L20 ASW22K20
2NC	1 2	X X	0 0	Knob Lever Key	ASW202-104 ASW2L02-104 ASW2K02-104	ASW2102-104 ASW21L02-104 ASW21K02-104	ASW2202-104 ASW22L02-104 ASW22K02-104
2NO 2NC	1 2 3 4	0 X 0 X	X 0 X 0	Knob Lever Key	ASW222 ASW2L22 ASW2K22	ASW2122 ASW21L22 ASW21K22	ASW2222 ASW22L22 ASW22K22
2NO 2NC	1 2 3 4	0 0 X X	X X 0 0	Knob Lever Key	ASW222-111 ASW2L22-111 ASW2K22-111	ASW2122-111 ASW21L22-111 ASW21K22-111	ASW2222-111 ASW22L22-111 ASW22K22-111



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Circuit Breakers

Non-Illuminated Selector Switches (Assembled) continued

3-Position Selector Switches

Style					Part Number			
Contact	Mounting	Operator Position			Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way
		L	C	R				
2NO	1	X	0	0				
	2	0	0	X				
2NC	1	0	X	X				
	2	X	X	0				
2NO	1	X	0	0				
	2	0	0	X				
2NC	3	0	X	X				
	4	X	X	0				
2NO	1	X	0	X				
	2	X	X	0				
2NC	3	0	X	0				
	4	0	0	X				
2NO	1	0	X	0				
	2	0	0	X				
2NC	3	0	X	0				
	4	0	0	X				
4NO	1	X	0	0				
	2	0	0	X				
4NC	3	X	0	0				
	4	0	0	X				
4NO	1	0	X	X				
	2	X	X	0				
4NC	3	0	X	X				
	4	X	X	0				



- The truth table indicates the operating position of contact block when the operator is switched to that position.
 X = On (closed contacts)
 0 = Off (open contacts)
 X—X = Overlapping Contacts: Remain on (closed contacts) when switch is moved between these two positions.
- All knob and lever selector switches come in black. Other colors are available by ordering the knob or lever separately.
- Every key selector switch uses an identical key. The key is removable in any maintained position.
- Custom contact configurations are available, see page 585.

4-Position Selector Switch

Style						Maintained
Contact	Mounting	Operator Position				Part Number
		1	2	3	4	
2NO	1	X	0	0	0	
	2	0	X	0	0	
2NC	3	0	0	X	0	
	4	0	0	0	X	

5-Position Selector Switch

Style						Maintained	
Contact	Mounting	Operator Position					Part Number
		1	2	3	4	5	
2NO	1	X	0	0	0	0	
	2	0	X	0	0	0	
2NC	3	0	0	0	X	0	
	4	0	0	0	0	X	

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Non-illuminated Selector Switches (Sub-Assembled)



- 1. *Not needed with key type switches.
- 2. †Knob type shown.

Operators

Style	Positions	Description	Part Number	
	2	Maintained	ASW200	
		Spring return from right	ASW2100	
		Spring return from left	ASW2200	
	3	Maintained, Cam 1 Maintained, Cam 2 Maintained, Cam 3	Maintained, Cam 1	ASW300-1
			Maintained, Cam 2	ASW300-2
			Maintained, Cam 3	ASW300-3
		Spring return from right, Cam 1 Spring return from right, Cam 2	Spring return from right, Cam 1	ASW3100-1
			Spring return from right, Cam 2	ASW3100-2
			Spring return from left, Cam 1 Spring return from left, Cam 2	ASW3200-1 ASW3200-2
4	Maintained, Standard Cam Maintained, Cam 1	Spring return from left/right, Cam 1 Spring return from left/right, Cam 2	ASW3300-1 ASW3300-2	
		Maintained, Standard cam Maintained, Cam 1	ASW400 ASW400-1	
5	Maintained, Standard cam Maintained, Cam 1	ASW500 ASW500-1		
	2	Maintained	ASW2K00	
		Spring return from right	ASW21K00	
		Spring return from left	ASW22K00	
	3	Maintained, Cam 1 Maintained, Cam 2 Maintained, Cam 3	Spring return from right, Cam 1	ASW3K00-1
			Spring return from right, Cam 2	ASW3K00-2
			Spring return from right, Cam 3	ASW3K00-3
		Spring return from left, Cam 1 Spring return from left, Cam 2	Spring return from left, Cam 1	ASW31K00-1
			Spring return from left, Cam 2	ASW31K00-2
			Spring return from left, Cam 1 Spring return from left, Cam 2	ASW32K00-1 ASW32K00-2
Spring return from left/right, Cam 1 Spring return from left/right, Cam 2	Spring return from left/right, Cam 1	ASW33K00-1		
	Spring return from left/right, Cam 2	ASW33K00-2		

- 1. Two keys are supplied with every key switch, all are keyed alike, and removable from any maintained position.
- 2. Locking rings are included with all operators. Order knobs, levers, and color inserts separately.
- 3. Different cams produce different contact actions. For details, see contact arrangement charts, page 585.
- 4. Key switch operator supplied with black sleeve.

① Handle/Insert Color Codes




Color	Code
Black*	B
Blue	S
Green	G
Red	R
Yellow	Y
White†	W

- *Color inserts not available in black.
- †Knob and lever not available in white.

Handles and Inserts

Style	Part Number
	ASWHHY-①
	ASWHHL-①
	TW-HC1-①

Contact Blocks

Style	Part Number	
	1NO	1NC
Standard Exposed Screw 	HW-C10 HW-C10R (early make)	HW-C01 HW-C01R (late break)
Fingersafe (IP20), CE marked 	HW-F10 HW-F10R (early make)	HW-F01 HW-F01R (late break)
Dummy Block 	TW-DB	

- 1. Push rod color code:
Green = NO contact block
Red = NC contact block.
- 2. Dummy blocks (no contacts) are used with an odd number of contact blocks.

Replacement Parts

Key Switch Black Sleeve	AKW2B-B
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Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

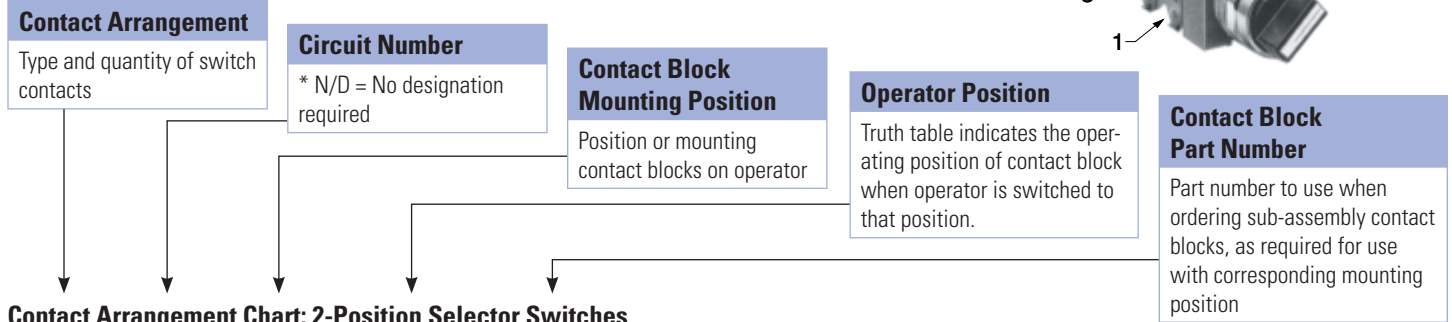
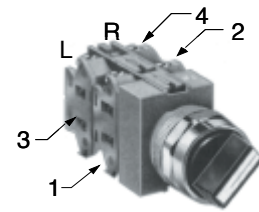
Terminal Blocks

Circuit Breakers

Contact Arrangement Charts

How to Read Contact Arrangement Charts

To determine contact block mounting position, first make sure the selector switch is oriented as shown on the right



Contact Arrangement Chart: 2-Position Selector Switches

Style		Mounting Position	Operator Position		Contact Block Part Number	Description	Operator Part Number		
Contact	Circuit Number		L	R			Maintained	Spring Ret. from Rt.	Spring Ret. from Lt.
1NO	N/D	1	0	X	HW-C10	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	0	0	TW-DB		ASW2K00	ASW21K00	ASW22K00
1NC	116	1	X	0	HW-C01	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	0	0	TW-DB		ASW2K00	ASW21K00	ASW22K00
1NO 1NC	N/D	1	0	X	HW-C10	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	X	0	HW-C01		ASW2K00	ASW21K00	ASW22K00
	103	1	X	0	HW-C01	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	0	X	HW-C10		ASW2K00	ASW21K00	ASW22K00
1NO-EM 1NC-LB	600	1	0	X	HW-C10R	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	X	0	HW-C01R		ASW2K00	ASW21K00	ASW22K00
	601	1	X	0	HW-C01R	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	0	X	HW-C10R		ASW2K00	ASW21K00	ASW22K00
2NO	N/D	1	0	X	HW-C10	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	0	X	HW-C10		ASW2K00	ASW21K00	ASW22K00
2NC	104	1	X	0	HW-C01	Knob/Lever Key	ASW200	ASW2100	ASW2200
		2	X	0	HW-C01		ASW2K00	ASW21K00	ASW22K00
2NO 2NC	N/D	1	0	X	HW-C10	Knob/Lever Key	ASW200 ASW2K00 ASLW200	ASW2100 ASW21K00 ASLW2100	ASW2200 ASW22K00 ASLW2200
		2	X	0	HW-C01				
		3	0	X	HW-C10				
		4	X	0	HW-C01				
	111	1	0	X	HW-C10	Knob/Lever Key	ASW200 ASW2K00 ASLW200	ASW2100 ASW21K00 ASLW2100	ASW2200 ASW22K00 ASLW2200
		2	0	X	HW-C10				
		3	X	0	HW-C01				
		4	X	0	HW-C01				

1. NO-EM, NC-LB = Early Make, Late Break.
 N/D = No circuit number designation required in assembled selector switch part number.
 2. X = On (closed contacts) 0 = Off (Open contacts)

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Contact Arrangement Chart: 3-Position Selector Switches

Style	Contact	Circuit Number	Mounting Position	Operator Position			Contact Block Part Number	Description	Operator Part Number			
				L	C	R			Maintained	Spring Return from Right	Spring Return from Left	Two-Way
1NO 1NC	202	1	X	0	0	HW-C10	Knob/Lever Key	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1	
		2	X	X	0	HW-C01	Illuminated Knob					
	203	1	0	X	X	HW-C01	Knob/Lever Key	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1	
		2	0	0	X	HW-C10	Illuminated Knob					
	302	1	X	0	X	HW-C10	Knob/Lever Key	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2	
		2	X	X	0	HW-C01	Illuminated Knob					
	303	1	0	X	0	HW-C01	Knob/Lever Key	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2	
		2	0	0	X	HW-C10	Illuminated Knob					
	2NO	N/D	1	X	0	0	HW-C10	Knob/Lever Key	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1
			2	0	0	X	HW-C10	Illuminated Knob				
		301	1	X	0	X	HW-C10	Knob/Lever Key	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2
			2	0	0	X	HW-C10	Illuminated Knob				
2NC	304	1	0	X	0	HW-C01	Knob/Lever Key	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2	
		2	X	X	0	HW-C01	Illuminated Knob					
	N/D	1	0	X	X	HW-C01	Knob/Lever Key	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1	
		2	X	X	0	HW-C01	Illuminated Knob					
2NO 2NC	N/D	1	X	0	0	HW-C10	Knob/Lever Key Illuminated Knob	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1	
		2	0	0	X	HW-C10						
		3	0	X	X	HW-C01						
		4	X	X	0	HW-C01						
	210	1	0	X	X	HW-C01	Knob/Lever Key Illuminated Knob	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1	
		2	0	0	X	HW-C10						
		3	0	X	X	HW-C01						
		4	0	0	X	HW-C10						
	308	1	X	0	X	HW-C10	Knob/Lever Key Illuminated Knob	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2	
		2	X	X	0	HW-C01						
		3	X	0	X	HW-C10						
		4	X	X	0	HW-C01						
	309	1	X	0	X	HW-C10	Knob/Lever Key Illuminated Knob	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2	
		2	X	X	0	HW-C01						
		3	0	X	0	HW-C01						
		4	0	0	X	HW-C10						
310	1	0	X	0	HW-C01	Knob/Lever Key Illuminated Knob	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2		
	2	0	0	X	HW-C10							
	3	0	X	0	HW-C01							
	4	0	0	X	HW-C10							

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- Each operator sub-assembly is available as a "-1" and a "-2" for 3-position selector switches. The internal cam of a "-1" is different from that of a "-2". This results in designated combinations of open and closed contacts in the various operator positions.
- N/D = No circuit number designation required in assembled part number.
- X = On (closed contacts) 0 = Off (open contacts). X X Overlapping contacts remain on (closed) when switch is moved between these two positions.

Contact Arrangement Chart: 3-Position Selector Switches

Style		Mounting Position	Operator Position			Contact Block Part Number	Description	Operator Part Number			
Contact	Circuit Number		L	C	R			Maintained	Spring Return from Right	Spring Return from Left	Two-Way
4NO	N/D	1	X	0	0	HW-C10	Knob/Lever Key Illuminated Knob	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1
		2	0	0	X	HW-C10					
		3	X	0	0	HW-C10					
		4	0	0	X	HW-C10					
	305	1	X	0	X	HW-C10	Knob/Lever Key Illuminated Knob	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2
		2	0	0	X	HW-C10					
		3	X	0	X	HW-C10					
		4	0	0	X	HW-C10					
4NC	N/D	1	0	X	X	HW-C01	Knob/Lever Key Illuminated Knob	ASW300-1 ASW3K00-1 ASLW300-1	ASW3100-1 ASW31K00-1 ASLW3100-1	ASW3200-1 ASW32K00-1 ASLW3200-1	ASW3300-1 ASW33K00-1 ASLW3300-1
		2	X	X	0	HW-C01					
		3	0	X	X	HW-C01					
		4	X	X	0	HW-C01					
	314	1	0	X	0	HW-C01	Knob/Lever Key Illuminated Knob	ASW300-2 ASW3K00-2 ASLW300-2	ASW3100-2 ASW31K00-2 ASLW3100-2	ASW3200-2 ASW32K00-2 ASLW3200-2	ASW3300-2 ASW33K00-2 ASLW3300-2
		2	X	X	0	HW-C01					
		3	0	X	0	HW-C01					
		4	X	X	0	HW-C01					

- 1. Each operator sub-assembly is available as a "-1" and a "-2" for 3-position selector switches. The internal cam of a "-1" is different from that of a "-2". This results in designated combinations of open and closed contacts in the various operator positions.
- 2. N/D = No circuit number designation required in assembled part number.
- 3. X = On (closed contacts) 0 = Off (open contacts). X X Overlapping contacts remain on (closed) when switch is moved between these two positions.

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Custom Selector Switch Building Guide

To build a custom selector switch, follow these steps.

Step 1

How many positions of the switch are needed?

of positions
(2, 3, 4, 5)

Step 2

How many contacts should there be?

of isolated contacts
(maximum 6)

Step 3

Fill in the Truth Table

(X = closed, 0 = open)

		Knob Position				
		1	2	3	4	5
Contacts	1					
	2					
	3					
	4					
	5					
	6					

Step 4

If building a 2 position selector, skip this step. (2 position selectors have only one cam)

If building a 3, 4, or 5 position selector, determine appropriate cam as follows:

- Look at Row 1 from above table and locate an identical row in the operator truth tables (See next page).
- Repeat for all rows. The user must find one operator that contains all rows from above table.
- Record the operator cam version.

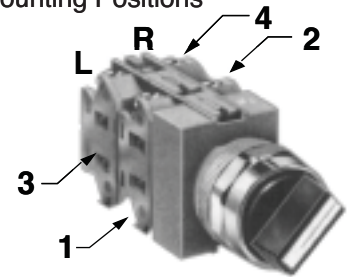
Step 5

Build by placing appropriate contact in appropriate mounting position for each desired row on operator cam truth table. "L" and "R" refer to mounting on left or right side of operator as viewed from the front of the panel.

Step 6

Develop an assembly part number (if necessary) as follows: follow standard numbering nomenclature for selector switches (see pages 577 or 581. In place of the "Circuit Number" indicate the cam number and contact arrangement as such ASW322-3-OELCSS, where "3" is the cam number, and contact arrangement "OELCXX" calls out individual contact mounting locations in order (see diagram above). O=NO, C=NC, E=NO-EM, L=NC-LB, X= no contact. Part number must designate all 6 possible mounting locations.

Mounting Positions



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Caution: Before putting any custom selector switch into use, the user should use an ohmmeter to test for desired performance.
1. For Operator Truth Tables, see next page.

Operator Truth Tables

Use the following tables to build custom selector switches.

2 Position Selector Switches

	Contact	Mounting Position	Operator Position	
			Left	Right
ASW200 ASLW200 ASW2K00	HW-C10 (NO)	L	0	X
		R	0	X
	HW-C01 (NC)	L	X	0
		R	X	0
	HW-C10R (NO-EM)	L	0	X
		R	0	X
HW-C01R (NC-LB)	L	X	0	
	R	X	0	

3 Position Selector Switches

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASW300-1 ASW3K00-1 ASLW300-1	HW-C10 (NO)	L	X	0	0
		R	0	0	X
	HW-C01 (NC)	L	0	X	X
		R	X	X	0
	HW-C10R (NO-EM)	L	X	0	0
		R	0	0	X
HW-C01R (NC-LB)	L	0	X	X	
	R	X	X	0	

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASW300-2 ASW3K00-2 ASLW300-2	HW-C10 (NO)	L	X	0	X
		R	0	0	X
	HW-C01 (NC)	L	0	X	0
		R	X	X	0
	HW-C10R (NO-EM)	L	X	0	X
		R	0	0	X
HW-C01R (NC-LB)	L	0	X	0	
	R	X	X	0	

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASW300-3 ASW3K00-3 ASLW300-3	HW-C10 (NO)	L	X	0	0
		R	0	0	X
	HW-C01 (NC)	L	0	X	0
		R	0	X	0
	HW-C10R (NO-EM)	L	X	0	X
		R	X	0	X
HW-C01R (NC-LB)	L	0	X	X	
	R	X	X	0	

4 Position Selector Switches

	Contact	Mounting Position	Operator Position			
			1	2	3	4
ASW400	HW-C10 (NO)	L	X	0	0	0
		R	0	X	0	0
	HW-C01 (NC)	L	0	X	X	X
		R	X	0	X	X
	HW-C10R (NO-EM)	L	X	0	0	0
		R	0	X	0	0
HW-C01R (NC-LB)	L	0	X	X	X	
	R	X	0	X	X	

	Contact	Mounting Position	Operator Position			
			1	2	3	4
ASW400-1	HW-C10 (NO)	L	X	0	0	0
		R	0	0	0	X
	HW-C01 (NC)	L	0	0	X	0
		R	0	X	0	0
	HW-C10R (NO-EM)	L	X	X	0	X
		R	X	0	X	X
HW-C01R (NC-LB)	L	0	X	X	X	
	R	X	X	X	0	

5 Position Selector Switches

	Contact	Mounting Position	Operator Position				
			1	2	3	4	5
ASW500	HW-C10 (NO)	L	X	0	0	0	0
		R	0	X	0	0	0
	HW-C01 (NC)	L	0	0	X	X	X
		R	0	0	0	X	X
	HW-C10R (NO-EM)	L	X	0	0	0	0
		R	0	X	0	0	0
HW-C01R (NC-LB)	L	0	X	X	X	X	
	R	X	0	X	X	X	

	Contact	Mounting Position	Operator Position				
			1	2	3	4	5
ASW500-1	HW-C10 (NO)	L	X	0	0	0	0
		R	0	0	0	0	X
	HW-C01 (NC)	L	0	0	0	X	0
		R	0	X	0	0	0
	HW-C10R (NO-EM)	L	X	X	X	0	X
		R	X	0	X	X	X
HW-C01R (NC-LB)	L	0	X	X	X	X	
	R	X	X	X	X	0	

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers