

Illuminated Selector Switches (Assembled)



Assembled Illuminated Selector Switches

A SL D 2 (2) 22 11 DN U - 111 - R

Function

SL: Illuminated Selector Switch

Series Designation

D: TWND series

Number of Positions

2: 2-Position
3: 3-Position

Spring Return Action

Blank: Maintained
1: Spring return from Right
2: Spring return from Left
3: Two-Way spring return from Left and Right

Rated Operational Voltage (Primary)

Transformer Type	Full Voltage Type
136: 120V AC	66: 6VAC/DC
256: 240V AC	11: 12VAC/DC
486: 480V AC	22: 24VAC/DC
	QH2: 120VAC
	QM4: 240VAC

Contact Arrangement Code

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

Lens Color Code

A: Amber
G: Green
R: Red
S: Blue
W: White
Y: Yellow

Circuit Code Number

See Circuit # column of Selector Switch Contact Arrangement Charts on page 764.

D: LED Lamp



Use only when interpreting part numbers. Do not use for developing part numbers.

Illuminated Selector Switches (Assembled)

Illuminated 2-Position Selector Switches

Style					Part Number		
Contact	Mounting	Operator Position		Lamp Circuit Type	Maintained	Spring Return from Right	Spring Return from Left
		L	R				
1NO	1	0	X	Transformer Full Voltage	ASLD2 ④11DNU② ASLD2③11DNU②	ASLD21 ④11DNU② ASLD21③11DNU②	ASLD22 ④11DNU② ASLD22③11DNU②
1NC	2	X	0				
2NO	1	0	X	Transformer Full Voltage	ASLD2 ④20DNU② ASLD2③20DNU②	ASLD21 ④20DNU② ASLD21③20DNU②	ASLD22 ④20DNU② ASLD22③20DNU②
2NC	2	0	X				
2NO	1	X	0	Transformer Full Voltage	ASLD2 ④02DNU-② ASLD2③02DNU-104-②	ASLD21 ④02DNU-② ASLD21③02DNU-②	ASLD22 ④02③DNU-② ASLD22③02DNU-②
2NC	2	X	0				
2NO	1	0	X	Transformer Full Voltage	ASLD2 ④22DNU② ASLD2③22DNU②	ASLD21 ④22DNU② ASLD21③22DNU②	ASLD22 ④22DNU② ASLD22③22DNU②
2NC	2	X	0				
2NC	3	0	X				
2NC	4	X	0				
2NO	1	0	X	Transformer Full Voltage	ASLD2 ④22DNU-111-② ASLD2③22DNU-111-②	ASLD21 ④22DNU-111-② ASLD21③22DNU-111-②	ASLD22 ④22DNU-111-② ASLD22③22DNU-111-②
2NC	2	0	X				
2NC	3	X	0				
2NC	4	X	0				

② Lens Color Codes

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White	W
Yellow	Y

③ Full Voltage Codes

Voltage	Code
6V AC/DC	66
12V AC/DC	11
24V AC/DC	22
120V AC	QH2
240V AC	QM4

Illuminated 3-Position Selector Switches, Maintained and Spring Return

Style					Part Number				
Contact	Mounting	Operator Position			Lamp Circuit Type	Maintained	Spring Return From Right	Spring Return from Left	Spring Return Two-Way
		L	C	R					
2NO	1	X	0	0	Transformer Full Voltage	ASLD3 ④ 20DNU② ASLD3③20DNU②	ASLD31 ④ 20DNU② ASLD31③20DNU②	ASLD32 ④ 20DNU② ASLD32③20DNU②	ASLD33 ④ 20DNU② ASLD33③20DNU②
2NC	2	0	0	X					
2NC	1	0	X	X	Transformer Full Voltage	ASLD3 ④ 02DNU② ASLD3③02DNU②	ASLD31 ④ 02DNU② ASLD31③02DNU②	ASLD32 ④ 02DNU② ASLD32③02DNU②	ASLD33 ④ 02DNU② ASLD33③02DNU②
2NC	2	X	X	0					
2NO	1	X	0	0	Transformer Full Voltage	ASLD3 ④ 22DNU② ASLD3③22DNU②	ASLD31 ④ 22DNU② ASLD31③22DNU②	ASLD32 ④ 22DNU② ASLD32③22DNU②	ASLD33 ④ 22DNU② ASLD33③22DNU②
2NC	2	0	0	X					
2NC	3	0	X	X					
2NC	4	X	X	0					
2NO	1	X	0	X	Transformer Full Voltage	ASLD3 ④ 22DNU-309-② ASLD3③22DNU-309-②	ASLD31 ④ 22DNU-309-② ASLD31③22③DNU-309-②	ASLD32 ④ 22DNU-309-② ASLD32③22DNU-309-②	ASLD33 ④ 22DNU-309-② ASLD33③22DNU-309-②
2NC	2	X	X	0					
2NC	3	0	X	0					
2NC	4	0	0	X					
2NO	1	0	X	0	Transformer Full Voltage	ASLD3 ④ 22DNU-310-② ASLD3③22DNU-310-②	ASLD31 ④ 22DNU-310-② ASLD31③22DNU-310-②	ASLD32 ④ 22DNU-310-② ASLD32③22DNU-310-②	ASLD33 ④ 22DNU-310-② ASLD33③22DNU-310-②
2NC	2	0	0	X					
2NC	3	0	X	0					
2NC	4	0	0	X					
4NO	1	X	0	0	Transformer Full Voltage	ASLD3 ④ 40DNU② ASLD3③40DNU②	ASLD31 ④ 40DNU② ASLD31③40DNU②	ASLD32 ④ 40DNU② ASLD32③40DNU②	ASLD33 ④ 40DNU② ASLD33③40DNU②
4NO	2	0	0	X					
4NO	3	X	0	0					
4NO	4	0	0	X					
4NC	1	0	X	X	Transformer Full Voltage	ASLD3 ④ 04DNU② ASLD3③04DNU②	ASLD31 ④ 04DNU② ASLD31③04DNU②	ASLD32 ④ 04DNU② ASLD32③04DNU②	ASLD33 ④ 04DNU② ASLD33③04DNU②
4NC	2	X	X	0					
4NC	3	0	X	X					
4NC	4	X	X	0					

- In place of ②, specify the Lens/LED Color Code, in place of ③, specify the Full Voltage (LED voltage) Code, in place of ④, specify the Transformer Voltage Code.
- 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 positions
- Yellow selector switch comes with white LED.

④ Transformer Voltage Codes

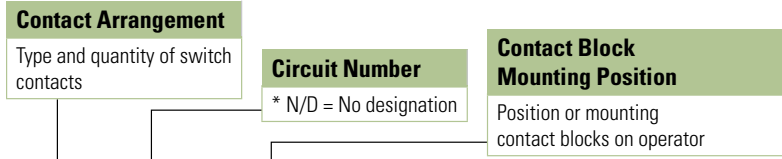
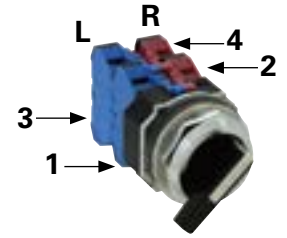
Voltage	Code
120VAC	136
240VAC	256
480VAC	486

Transformers step down to 6V (use 6V LED).

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



Operator Position

Truth table indicates the operating position of contact block when operator is switched to that position.

X = On (Closed Contacts)
 O = Off (Open Contacts)
 X-X = Overlapping Contacts: Remain on (closed) when switch is moved between these two positions

Contact Block Part Number

Part number to use when ordering sub-assembly contact blocks, as required for use with corresponding mounting position

Contact Arrangement Chart: 2-Position Selector Switches

Style	Contact	Circuit Number	Mounting Position	Operator Position		Contact Block Part Number	Description	Operator Part Number			
				L	R			Maintained	Spring Return from Right	Spring Return from Left	
1NO	N/D	1	2	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				0	O	HW-DB		ASD0201KT8	ASD0213KT8	ASD0224KT8	
1NC	N/D	1	2	X	O	HW-U01-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				O	O	HW-DB		ASD0201KT8	ASD0213KT8	ASD0224KT8	
1NO 1NC	N/D	1	2	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
	103	1	2	X	O	HW-U01-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				O	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
1NO-EM 1NC-LB	600	1	2	0	X	HW-U10R-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01R-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
	601	1	2	X	O	HW-U01R-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				O	X	HW-U10R-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
2NO	N/D	1	2	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				0	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
2NC	N/D	1	2	X	O	HW-U01-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
2NO 2NC	N/D	1	2	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
				0	X	HW-U10-F		ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
	110	1	2	3	X	O	HW-U01-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8
					O	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8
					X	O	HW-U01-F		ASD0201T8	ASD0213T8	ASD0224T8
					O	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8
111	1	2	3	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				O	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
				X	O	HW-U01-F		ASD0201T8	ASD0213T8	ASD0224T8	
				X	O	HW-U01-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
4NO	N/D	1	2	0	X	HW-U10-F	Knob/Lever Key	ASD0201T8	ASD0213T8	ASD0224T8	
				0	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	
				0	X	HW-U10-F		ASD0201T8	ASD0213T8	ASD0224T8	
				0	X	HW-U10-F		ASD0201KT8	ASD0213KT8	ASD0224KT8	

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	
1NO 1NC	202	1	X	0	0	HW-U10-F	Knob/Lever Key	ASD0302T8 ASD0302KT8	ASD0314T8 ASD0314KT8	ASD0323T8 ASD0323KT8	ASD0335T8 ASD0335KT8	
		2	X—X	0	0	HW-U01-F	Illuminated Knob	ASLD0302T8	ASLD0314T8	ASLD0323T8	ASLD0335T8	
	203	1	0	X—X	0	HW-U01-F	Knob/Lever Key	ASD0302T8 ASD0302KT8	ASD0314T8 ASD0314KT8	ASD0323T8 ASD0323KT8	ASD0335T8 ASD0335KT8	
		2	0	0	X	HW-U10-F	Illuminated Knob	ASLD0302T8	ASLD0314T8	ASLD0323T8	ASLD0335T8	
	302	1	X	0	X	HW-U10-F	Knob/Lever Key	ASD0306T8 ASD0306KT8	ASD0310T8 ASD0301KT8	ASD0328T8 ASD0328KT8	ASD0339T8 ASD0339KT8	
		2	X—X	0	0	HW-U01-F	Illuminated Knob	ASLD0306T8	ASLD310T8	ASLD0328T8	ASLD0339T8	
	303	1	0	X	0	HW-U01-F	Knob/Lever Key	ASD0306T8 ASD0306KT8	ASD0310T8 ASD0301KT8	ASD0328T8 ASD0328KT8	ASD0339T8 ASD0339KT8	
		2	0	0	X	HW-U10-F	Illuminated Knob	ASLD0306T8	ASLD310T8	ASLD0323T8	ASLD0339T8	
	2NO	N/D	1	X	0	0	HW-U10-F	Knob/Lever Key	ASD0302T8 ASD0302KT8	ASD0314T8 ASD0314KT8	ASD0323T8 ASD0323KT8	ASD0335T8 ASD0335KT8
			2	0	0	X	HW-U10-F	Illuminated Knob	ASLD0302T8	ASLD0314T8	ASLD0323T8	ASLD0335T8
301		1	X	0	X	HW-U10-F	Knob/Lever Key	ASD0306T8 ASD0306KT8	ASD0310T8 ASD0301KT8	ASD0328T8 ASD0328KT8	ASD0339T8 ASD0339KT8	
		2	0	0	X	HW-U10-F	Illuminated Knob	ASLD0306T8	ASLD310T8	ASLD0328T8	ASLD0339T8	
2NC	304	1	0	X	0	HW-U01-F	Knob/Lever Key	ASD0306T8 ASD0306KT8	ASD0310T8 ASD0301KT8	ASD0328T8 ASD0328KT8	ASD0339T8 ASD0339KT8	
		2	X—X	0	0	HW-U01-F	Illuminated Knob	ASLD0306T8	ASLD310T8	ASLD0328T8	ASLD0339T8	
	N/D	1	0	X—X	0	HW-U01-F	Knob/Lever Key	ASD0302T8 ASD0302KT8	ASD0314T8 ASD0314KT8	ASD0323T8 ASD0323KT8	ASD0335T8 ASD0335KT8	
		2	X—X	0	0	HW-U01-F	Illuminated Knob	ASLD0302T8	ASLD0314T8	ASLD0323T8	ASLD0335T8	
2NO 2NC	N/D	1	X	0	0	HW-U10-F	Knob/Lever Key Illuminated Knob	ASD0302T8 ASD0302KT8 ASLD0302T8	ASD0314T8 ASD0314KT8 ASLD0314T8	ASD0323T8 ASD0323KT8 ASLD0323T8	ASD0335T8 ASD0335KT8 ASLD0335T8	
		2	0	0	X	HW-U10-F						
		3	0	X—X	0	HW-U01-F						
		4	X—X	0	0	HW-U01-F						
	210	1	0	X—X	0	HW-U01-F	Knob/Lever Key Illuminated Knob	ASD0302T8 ASD0302KT8 ASLD0302T8	ASD0314T8 ASD0314KT8 ASLD0314T8	ASD0323T8 ASD0323KT8 ASLD0323T8	ASD0335T8 ASD0335KT8 ASLD0335T8	
		2	0	0	X	HW-U10-F						
		3	0	X—X	0	HW-U01-F						
		4	0	0	X	HW-U10-F						
	308	1	X	0	X	HW-U10-F	Knob/Lever Key Illuminated Knob	ASD0306T8 ASD0306KT8 ASLD0306T8	ASD0310T8 ASD0301KT8 ASLD310T8	ASD0328T8 ASD0328KT8 ASLD0328T8	ASD0339T8 ASD0339KT8 ASLD0339T8	
		2	X—X	0	0	HW-U01-F						
		3	X	0	X	HW-U10-F						
		4	X—X	0	0	HW-U01-F						
	309	1	X	0	X	HW-U10-F	Knob/Lever Key Illuminated Knob	ASD0306T8 ASD0306KT8 ASLD0306T8	ASD0310T8 ASD0301KT8 ASLD310T8	ASD0328T8 ASD0328KT8 ASLD0328T8	ASD0339T8 ASD0339KT8 ASLD0339T8	
		2	X—X	0	0	HW-U01-F						
		3	0	X	0	HW-U01-F						
		4	0	0	X	HW-U10-F						
310	1	0	X	0	HW-U01-F	Knob/Lever Key Illuminated Knob	ASD0306T8 ASD0306KT8 ASLD0306T8	ASD0310T8 ASD0301KT8 ASLD310T8	ASD0328T8 ASD0328KT8 ASLD0328T8	ASD0339T8 ASD0339KT8 ASLD0339T8		
	2	0	0	X	HW-U10-F							
	3	0	X	0	HW-U01-F							
	4	0	0	X	HW-U10-F							

- Each operator sub-assembly is available as an "02" and an "06" for 3-position selector switches. The internal cam of an "02" is different from that of an "06". 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-U10-F					
		2	0	0	X	HW-U10-F	Knob/Lever Key	ASD0302T8 ASD0302KT8 ASLD0302T8	ASD0314T8 ASD0314KT8 ASLD0314T8	ASD0323T8 ASD0323KT8 ASLD0323T8	ASD0335T8 ASD0335KT8 ASD0335T8
		3	X	0	0	HW-U10-F	Illuminated Knob				
		4	0	0	X	HW-U10-F					
	305	1	X	0	X	HW-U10-F	Knob/Lever Key	ASD0306T8 ASD0306KT8 ASLD0306T8	ASD0310T8 ASD0301KT8 ASLD0310T8	ASD0328T8 ASD0328KT8 ASLD0328T8	ASD0339T8 ASD0339KT8 ASLD0339T8
		2	0	0	X	HW-U10-F	Illuminated Knob				
		3	X	0	X	HW-U10-F					
		4	0	0	X	HW-U10-F					
4NC	N/D	1	0	X	X	HW-U01-F	Knob/Lever Key	ASD0302T8 ASD0302KT8 ASLD0302T8	ASD0314T8 ASD0314KT8 ASLD0314T8	ASD0323T8 ASD0323KT8 ASLD0323T8	ASD0335T8 ASD0335KT8 ASD0335T8
		2	X	X	0	HW-U01-F	Illuminated Knob				
		3	0	X	X	HW-U01-F					
		4	X	X	0	HW-U01-F					
	314	1	0	X	0	HW-U01-F	Knob/Lever Key	ASD0306T8 ASD0306KT8 ASLD0306T8	ASD0310T8 ASD0301KT8 ASLD0310T8	ASD0328T8 ASD0328KT8 ASLD0328T8	ASLD0339T8 ASD0339KT8 ASLD0339T8
		2	X	X	0	HW-U01-F	Illuminated Knob				
		3	0	X	0	HW-U01-F					
		4	X	X	0	HW-U01-F					

- Each operator sub-assembly is available as an "02" and an "06" for 3-position selector switches. The internal cam of an "02" is different from that of an "06". 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.

Operator Truth Tables

Use the following tables to build custom selector switches.

2 Position Selector Switches

	Contact	Mounting Position	Operator Position	
			Left	Right
ASLD0201T8	HW-U10-F (NO)	L	0	X
		R	0	X
	HW-U01-F (NC)	L	X	0
		R	X	0
	HW-U10R-F (NO-EM)	L	0	X-X
		R	0	X-X
	HW-U01R-F (NC-LB)	L	X-X	0
		R	X-X	0

3 Position Selector Switches

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASD0302T8 ASLD0302T8 ASD0302KT8	HW-U10-F (NO)	L	X	0	0
		R	0	0	X
	HW-U01-F (NC)	L	0	X-X	0
		R	X-X	0	0
	HW-U10R-F (NO-EM)	L	X	0	0
		R	0	0	X
	HW-U10R-F (NC-LB)	L	0	X-X	0
		R	X-X	X	0

	Contact	Mounting Position	Operator Position		
			Left	Center	Right
ASD0306T8 ASLD0306T8 ASD0306KT8	HW-U10-F (NO)	L	X	0	X
		R	0	0	X
	HW-U01-F (NC)	L	0	X	0
		R	X-X	0	0
	HW-U10R-F (NO-EM)	L	X	0	X
		R	0	0	X
	HW-U01R-F (NC-LB)	L	0	X	0
		R	X-X	X	0