

**Non-Illuminated Selector Switches (Assembled)**



**Assembled Selector Switches**

**A S D 2 ( ) ( ) 11 NU - ( )**

**Function**

S: 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: 2-Way spring return from Left and Right

**Circuit Number**

(See Circuit # column of Selector Switch Contact Arrangement Chart on beginning on page 764.)

**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 key removal codes available. Please contact IDEC for details.

Non-Illuminated Selector Switches (Assembled)

Non-Illuminated 2-Position Selector Switches

Style					Part Number			
Contact	Mounting	Operator Position			Maintained	Spring Return from Right	Spring Return from Left	
		L	R					
1NO	1	0	X	Knob	ASD210NU	ASD2110NU	ASD2210NU	
	2	0	0		Lever	ASD210NU	ASD2110NU	ASD2210NU
	Key	ASD2K10NU	ASD21K10NU		ASD22K10NU			
1NC	1	X	0	Knob	ASD201NU	ASD2101NU	ASD2201NU	
	2	0	0		Lever	ASD201NU	ASD2101NU	ASD2201NU
	Key	ASD2K01NU	ASD21K01NU		ASD22K01NU			
1NO 1NC	1	0	X	Knob	ASD211NU	ASD2111NU	ASD2211NU	
	2	X	0		Lever	ASD211NU	ASD2111NU	ASD2211NU
	Key	ASD2K11NU	ASD21K11NU		ASD22K11NU			
2NO	1	0	X	Knob	ASD220NU	ASD2120NU	ASD2220NU	
	2	0	X		Lever	ASD220NU	ASD2120NU	ASD2220NU
	Key	ASD2K20NU	ASD21K20NU		ASD22K20NU			
2NC	1	X	0	Knob	ASD202NU	ASD2102NU	ASD2202NU	
	2	X	0		Lever	ASD202NU	ASD2102NU	ASD2202NU
	Key	ASD2K02NU	ASD21K02NU		ASD22K02NU			
2NO 2NC	1	0	X	Knob	ASD222NU	ASD2122NU	ASD2222NU	
	2	X	0		Lever	ASD222NU	ASD2122NU	ASD2222NU
	3	0	X		Key	ASD2L22NU	ASD21L22NU	ASD22L22NU
	4	X	0			ASD2K22NU	ASD21K22NU	ASD22K22NU
2NO 2NC	1	0	X	Knob	ASD222NU-111	ASD2122NU-111	ASD2222NU-111	
	2	0	X		Lever	ASD222NU-111	ASD2122NU-111	ASD2222NU-111
	3	X	0		Key	ASD2L22NU-111	ASD21L22NU-111	ASD22L22NU-111
	4	X	0			ASD2K22NU-111	ASD21K22NU-111	ASD22K22NU-111



- 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.
- Custom contact arrangements available, see page 764.

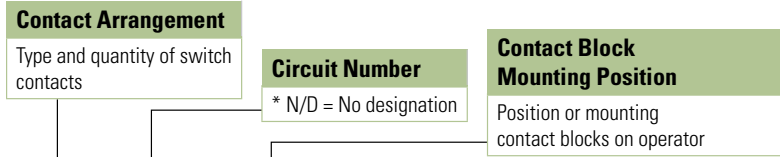
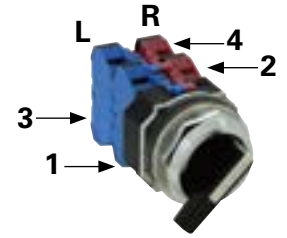
Non-Illuminated 3-Position Selector Switches

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	Knob	ASD320NU	ASD3120NU	ASD3220NU	ASD3320NU	
	2	0	0	X		Lever	ASD320NU	ASD3120NU	ASD3220NU	ASD3320NU
	Key	ASD3K20NU	ASD31K20NU	ASD32K20NU		ASD33K20NU				
2NC	1	0	X	X	Knob	ASD302NU	ASD3102NU	ASD3202NU	ASD3302NU	
	2	X	X	0		Lever	ASD302NU	ASD3102NU	ASD3202NU	ASD3302NU
	Key	ASD3K02NU	ASD31K02NU	ASD32K02NU		ASD33K02NU				
2NO 2NC	1	X	0	0	Knob	ASD322NU	ASD3122NU	ASD3222NU	ASD3322NU	
	2	0	0	X		Lever	ASD322NU	ASD3122NU	ASD3222NU	ASD3322NU
	3	0	X	X		Key	ASD3L22NU	ASD31L22NU	ASD32L22NU	ASD33L22NU
	4	X	X	0			ASD3K22NU	ASD31K22NU	ASD32K22NU	ASD33K22NU
2NO 2NC	1	X	0	X	Knob	ASD322NU-309	ASD3122NU-309	ASD3222NU-309	ASD3322NU-309	
	2	X	X	0		Lever	ASD322NU-309	ASD3122NU-309	ASD3222NU-309	ASD3322NU-309
	3	0	X	0		Key	ASD3L22NU-309	ASD31L22NU-309	ASD32L22NU-309	ASD33L22NU-309
	4	0	0	X			ASD3K22NU-309	ASD31K22NU-309	ASD32K22NU-309	ASD33K22NU-309
2NO 2NC	1	0	X	0	Knob	ASD322NU-310	ASD3122NU-310	ASD3222NU-310	ASD3322NU-310	
	2	0	0	X		Lever	ASD322NU-310	ASD3122NU-310	ASD3222NU-310	ASD3322NU-310
	3	0	X	0		Key	ASD3L22NU-310	ASD31L22NU-310	ASD32L22NU-310	ASD33L22NU-310
	4	0	0	X			ASD3K22NU-310	ASD31K22NU-310	ASD32K22NU-310	ASD33K22NU-310
4NO	1	X	0	0	Knob	ASD340NU	ASD3140NU	ASD3240NU	ASD3340NU	
	2	0	0	X		Lever	ASD340NU	ASD3140NU	ASD3240NU	ASD3340NU
	3	X	0	0		Key	ASD3L40NU	ASD31L40NU	ASD32L40NU	ASD33L40NU
	4	0	0	X			ASD3K40NU	ASD31K40NU	ASD32K40NU	ASD33K40NU
4NC	1	0	X	X	Knob	ASD304NU	ASD3104NU	ASD3204NU	ASD3304NU	
	2	X	X	0		Lever	ASD304NU	ASD3104NU	ASD3204NU	ASD3304NU
	3	0	X	X		Key	ASD3L04NU	ASD31L04NU	ASD32L04NU	ASD33L04NU
	4	X	X	0			ASD3K04NU	ASD31K04NU	ASD32K04NU	ASD33K04NU

### 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 ASD0335T8 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 ASLD0301T8	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