

Selector Switches 2-Position (Assembled)



2-Position Selector Switches

Contact	Mounting	Operator Position		Handle	Maintained	Spring Return from Right
		L	R			
<i>Operator Only</i>				<i>Knob</i>	HWⓈS-2T HWⓈS-2L	HWⓈS-21T HWⓈS-21L
<b>1NO</b>	1	0	X	<b>Knob</b>	HWⓈS-2TF10 HWⓈS-2LF10	HWⓈS-21TF10 HWⓈS-21LF10
<b>1NO-1NC</b>	1 2	0 X	X 0	<b>Knob</b> <b>Lever</b>	HWⓈS-2TF11 HWⓈS-2LF11	HWⓈS-21TF11 HWⓈS-21LF11
<b>2NO</b>	1 2	0 0	X X	<b>Knob</b> <b>Lever</b>	HWⓈS-2TF20 HWⓈS-2LF20	HWⓈS-21TF20 HWⓈS-21LF20
<b>2NO-2NC</b>	1 2 3 4	X 0 X 0	0 X 0 X	<b>Knob</b> <b>Lever</b>	HWⓈS-2TF22 HWⓈS-2LF22	HWⓈS-21TF22 HWⓈS-21LF22



- In place of Ⓢ enter 1 for plastic bezel or 4 for metal bezel.
- For nameplates, see page 546.
- All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
- Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
- Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
- Standard color for knob and lever is black.
- Optional colors available for lever type. Must order in components. See next page for part numbers.
- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 558.

Ⓢ Bezel Type

Type	Code
Plastic	1
Metal	4

Switches & Pilot Lights

Display Lights

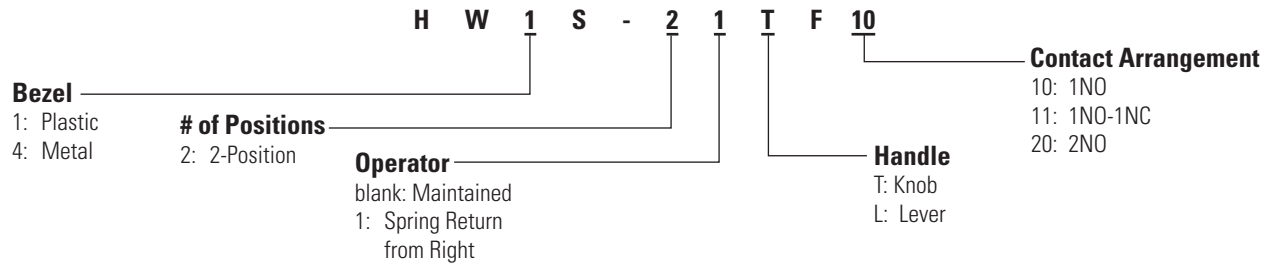
Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Part Number Structure



Selector Switches 2-Position (Replacement Parts)



Contact Blocks

Style	Contacts	1NO	1NC
Standard Fingersafe (IP20)		HW-F10	HW-F01
		HW-F10R (early make)	HW-F01R (late break)
Spring-Up Terminal		HW-G10	HW-G01
		HW-G10R (early make)	HW-G01R (late break)
Exposed Screw Terminal		HW-C10	HW-C01
		HW-C10R (early make)	HW-C01R (late break)
Dummy Block		TW-DB	

Operators

Style	Description	Handle	Plastic Bezel	Metal Bezel
	Maintained	Knob	HW1S-2T	HW4S-2T
		Lever	HW1S-2	HW4S-2
	Spring Return from Right	Knob	HW1S-21T	HW4S-21T
		Lever	HW1S-21	HW4S-21

- 1. Knob operator comes with black handle.
- 2. To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

Contact Block Mounting Adaptor

Style	Part Number
	HW-CB2C

- 1. Used to mount contact blocks to operator (first pair only).
- 2. IDEC strongly recommends using the safety lever lock (included) to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Anti-Rotation Ring

Appearance	Part Number
	HW9Z-RL

- Use with notched panel cutout to prevent unit rotation.

Levers & Inserts

Style	Part Number
	ASWHHL-⓪
	TW-HC1-⓪

- Standard lever color is black. Standard insert color is white.

① Handle/Insert Color Code

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

- 1. \* Lever color inserts not available in black.
- 2. <sup>†</sup>Lever not available in white.

**Selector Switches 3-Position (Assembled)**



**3-Position Selector Switches**

Contact	Mounting	Operator Position			Handle	Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way
		L	C	R					
<i>Operator Only</i>					<i>Knob Lever</i>	<i>HW⊙S-3T*</i> <i>HW⊙S-3L</i>	<i>HW⊙S-31T</i> <i>HW⊙S-31L</i>	<i>HW⊙S-32T</i> <i>HW⊙S-32L</i>	<i>HW⊙S-33T</i> <i>HW⊙S-33L</i>
<b>1NO-1NC</b>	1 2	0 0	X 0	X X	<b>Knob Lever</b>	HW⊙S-3TF11 HW⊙S-3LF11	HW⊙S-31TF11 HW⊙S-31LF11	HW⊙S-32TF11 HW⊙S-32LF11	HW⊙S-33TF11 HW⊙S-33LF11
<b>2NO</b>	1 2	X 0	0 0	0 X	<b>Knob Lever</b>	HW⊙S-3TF20 HW⊙S-3LF20	HW⊙S-31TF20 HW⊙S-31LF20	HW⊙S-32TF20 HW⊙S-32LF20	HW⊙S-33TF20 HW⊙S-33LF20
<b>2NC</b>	1 2	0 X	X X	X 0	<b>Knob Lever</b>	HW⊙S-3TF02 HW⊙S-3LF02	HW⊙S-31TF02 HW⊙S-31LF02	HW⊙S-32TF02 HW⊙S-32LF02	HW⊙S-33TF02 HW⊙S-33LF02
<b>2NO-1NC</b>	1 2 3	X 0 0	0 0 X	0 X 0	<b>Knob</b>	HW⊙S-3JTF21N1	—	—	—
<b>2NO-2NC</b>	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	<b>Knob</b>	HW⊙S-3TF22	HW⊙S-31TF22	HW⊙S-32TF22	HW⊙S-33TF22
<b>2NO-2NC</b>	1 2 3 4	0 X X 0	0 X X 0	X 0 0 X	<b>Knob</b>	HW⊙S-3STF22N9	—	—	—
<b>4NO</b>	1 2 3 4	X 0 X 0	0 0 0 0	0 X 0 X	<b>Knob</b>	HW⊙S-3TF40	HW⊙S-31TF40	HW⊙S-32TF40	HW⊙S-33TF40
<b>4NO</b>	1 2 3 4	X 0 X 0	0 X 0 0	0 X 0 X	<b>Knob</b>	HW⊙S-3STF40N2	—	—	—
<b>4NC</b>	1 2 3 4	0 X 0 X	X X X X	X 0 X 0	<b>Knob</b>	HW⊙S-3TF04	HW⊙S-31TF04	HW⊙S-32TF04	HW⊙S-33TF04

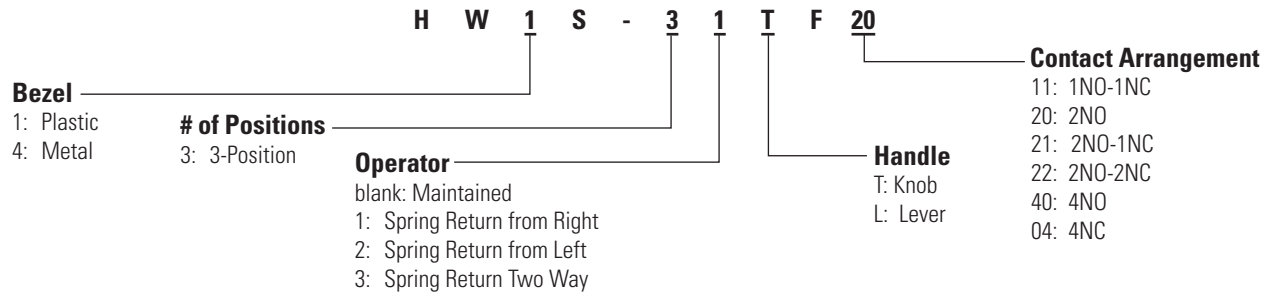
**Ⓢ Bezel Type**

Type	Code
Plastic	1
Metal	4

- 1. In place of ⊙ enter 1 for plastic bezel or 4 for metal bezel.
- 2. Knob operator includes black knob/lever operator includes black lever.
- 3. \* Three position operator is available with three different cams.  
HW⊙S-3T: Maintained (standard cam)  
HW⊙S-3ST: Maintained (S cam)  
HW⊙S-3JT: Maintained (J cam)
- 4. Operator cams are color coded (white=standard cam, red=S cam, black=J cam).
- 5. For nameplates, see page 546.
- 6. For contact assembly part numbers, see page 550.

- 7. All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
- 8. Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
- 9. Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
- 10. Standard color for knob and lever is black.
- 11. Optional colors available for lever type. Must order in components. See next page for part numbers.
- 12. Additional contact configurations available (up to 6 total contacts).
- 13. For Truth Tables see page 558.

Part Number Structure



Selector Switches 3-Position (Replacement Parts)



Contact Blocks

Style	Contacts	1NO	1NC
Standard Fingersafe (IP20)		HW-F10	HW-F01
		HW-F10R (early make)	HW-F01R (late break)
Spring-Up Terminal		HW-G10	HW-G01
		HW-G10R (early make)	HW-G01R (late break)
Exposed Screw Terminal		HW-C10	HW-C01
		HW-C10R (early make)	HW-C01R (late break)
Dummy Block		TW-DB	

Operators

Style	Description	Handle	Plastic Bezel	Metal Bezel
Maintained (standard cam)		Knob	HW1S-3T	HW4S-3T
		Lever	HW1S-3	HW4S-3
Maintained (S cam)		Knob	HW1S-3ST	HW4S-3ST
		Knob	HW1S-3JT	HW4S-3JT
Spring Return from Right (standard cam)		Knob	HW1S-31T	HW4S-31T
		Lever	HW1S-31	HW4S-31
Spring Return from Left (standard cam)		Knob	HW1S-32T	HW4S-32T
		Lever	HW1S-32	HW4S-32
2-Way Spring Return (standard cam)		Knob	HW1S-33T	HW4S-33T
		Lever	HW1S-33	HW4S-33

- 1. Knob operator comes with black handle.
- 2. Three position knob operator is available with three different cams.
- 3. Operator cams are color coded (white=standard cam, red=S cam, black=J cam).
- 4. To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

Contact Block Mounting Adaptor

Style	Part Number
	HW-CB2C

- 1. Used to mount contact blocks to operator (first pair only).
- 2. IDEC strongly recommends using the safety lever lock (included) to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Anti-Rotation Ring

Appearance	Part Number
	HW9Z-RL

- Use with notched panel cutout to prevent unit rotation.

Levers & Inserts

Style	Part Number
	Lever ASWHHL-Ⓞ
	Lever Color Insert TW-HC1-Ⓞ

- Standard lever color is black. Standard insert color is white.

① Handle/Insert Color Code

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

- 1. \* Lever color inserts not available in black.
- 2. <sup>†</sup> Lever not available in white.

Selector Switches 4- & 5-Position (Assembled)



4-Position Selector Switches

Contact	Mounting	Operator Position				Handle	Maintained
		1	2	3	4		
Operator Only						Knob Lever	HWⓈS-4T HWⓈS-4L
1NO- 2NC	1	X	0	0	0	Knob Lever	HWⓈS-4TF12 HWⓈS-4LF12
	2	0	X	0	0		
	3	0	0	X	0		
	4	0	0	0	0		
1NO- 3NC	1	0	X	X	X	Knob Lever	HWⓈS-4TF13N6 HWⓈS-4LF13N6
	2	0	X	0	0		
	3	0	0	X	0		
	4	0	0	0	X		
2NO- 2NC	1	X	0	0	0	Knob Lever	HWⓈS-4TF22N3 HWⓈS-4LF22N3
	2	0	X	0	0		
	3	0	0	X	0		
	4	0	0	0	X		

5-Position Selector Switch

Contact	Mounting	Operator Position					Handle	Maintained
		1	2	3	4	5		
Operator Only						Knob Lever	HWⓈS-5T HWⓈS-5L	
2NO- 2NC	1	X	0	0	0	0	Knob Lever	HWⓈS-5TF22N3 HWⓈS-5LF22N3
	2	0	X	0	0	0		
	3	0	0	0	X	0		
	4	0	0	0	0	X		

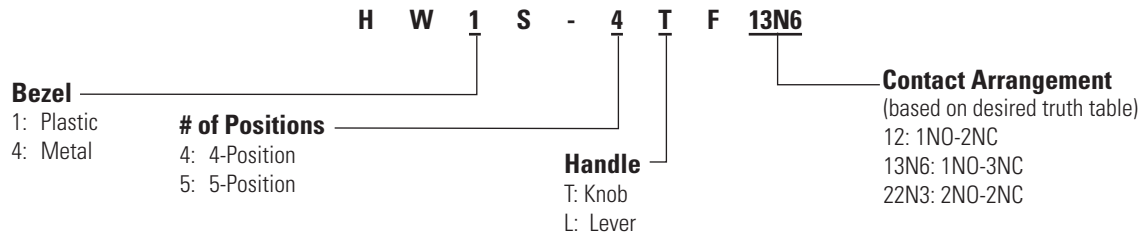


- In place of Ⓢ enter 1 for plastic bezel or 4 for metal bezel.
- Knob operator includes black knob/lever operator includes black lever.
- For nameplates, see page 546.
- For contact assembly part numbers, see page 550.
- Five position circuit cannot be made to make five independent contact closures.
- All assembled part numbers in catalog include standard fingersafe (HW-F...) contacts.
- Assembled units with spring-up terminals (HW-G...) can be ordered by removing an "F" from the part number (Ex. HW1B-M1F11-R becomes HW1B-M111-R).
- Units with exposed screw terminals (HW-C...) must be ordered as sub-components.
- Standard color for knob and lever is black.
- Optional colors available for lever type. Must order in components. See next page for part numbers.
- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 558.

Ⓢ Bezel Type

Type	Code
Plastic	1
Metal	4

Part Number Structure



Selector Switches 4- & 5-Position (Replacement Parts)



Contact Blocks

Style	Contacts	1NO	1NC
Standard Fingersafe (IP20)		HW-F10	HW-F01
		HW-F10R (early make)	HW-F01R (late break)
Spring-Up Terminal		HW-G10	HW-G01
		HW-G10R (early make)	HW-G01R (late break)
Exposed Screw Terminal		HW-C10	HW-C01
		HW-C10R (early make)	HW-C01R (late break)
Dummy Block		TW-DB	

Operators

Style	Position	Description	Handle	Plastic Bezel	Metal Bezel
	4	Maintained	Knob	HW1S-4T	HW4S-4T
			Lever	HW1S-4	HW4S-4
	5	Maintained	Knob	HW1S-5T	HW4S-5T
			Lever	HW1S-5	HW4S-5

- 1. Knob operator comes with black handle.
- 2. To order lever type, lever and inserts must be ordered separately, along with lever operator. See part numbers below.

Contact Block Mounting Adaptor

Style	Part Number
	HW-CB2C

- 1. Used to mount contact blocks to operator (first pair only).
- 2. IDEC strongly recommends using the safety lever lock (included) to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Levers & Inserts

Style	Part Number
	Lever ASWHHL-⓪
	Lever Color Insert TW-HC1-⓪

- Standard lever color is black. Standard insert color is white.

① Handle/Insert Color Code

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

- 1. \* Lever color inserts not available in black.
- 2. † Lever not available in white.

Anti-Rotation Ring

Appearance	Part Number
	HW9Z-RL

- Use with notched panel cutout to prevent unit rotation.