

Illuminated Selector Switches 2-Position (Assembled)



2-Position Illuminated Selector Switches

Contact	Mounting	Style		Part Number			
		Operator Position		Type	Maintained	Spring Return from Right	
		L ↙	R ↗		L ↙ R ↗	L ↙ R ↗	
<i>Operator Only</i>					HWⓄF-2②	HWⓄF-21②	
1NO-1NC	1 2	0 X	X 0	Full Voltage	HWⓄF-2F11QD-②-③	HWⓄF-21F11QD-②-③	
				Transformer	120V	HWⓄF-2F11H2D-②	HWⓄF-21F11H2D-②
					240V	HWⓄF-2F11M4D-②	HWⓄF-21F11M4D-②
2NO	1 2	X 0	0 X	Full Voltage	HWⓄF-2F20QD-②-③	HWⓄF-21F20QD-②-③	
				Transformer	120V	HWⓄF-2F20H2D-②	HWⓄF-21F20H2D-②
					240V	HWⓄF-2F20M4D-②	HWⓄF-21F20M4D-②
2NO-2NC	1 2 3 4	0 X 0 X	X 0 X 0	Full Voltage	HWⓄF-2F22QD-②-③	HWⓄF-21F22QD-②-③	
				Transformer	120V	HWⓄF-2F22H2D-②	HWⓄF-21F22H2D-②
					240V	HWⓄF-2F22M4D-②	HWⓄF-21F22M4D-②
				480V	HWⓄF-2F22T8D-②	HWⓄF-21F22T8D-②	

- 1. In place of ② specify Lens color code.
- 2. In place of ③ specify Full Voltage code.
- 3. In place of ④ enter 1 for plastic bezel or 4 for metal bezel.
- 4. For nameplates, see page 677.
- 5. For contact assembly part numbers, see page 682.
- 6. Light is independent of switch position.
- 7. All assembled part numbers in catalog include standard Finger-Safe spring-up (HW-U...) contacts.
- 8. **Yellow selector switch comes with white LED.**
- 9. Additional contact configurations available (up to 6 total contacts).
- 10. For Truth Tables see page 690.

② Lens Color Code

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

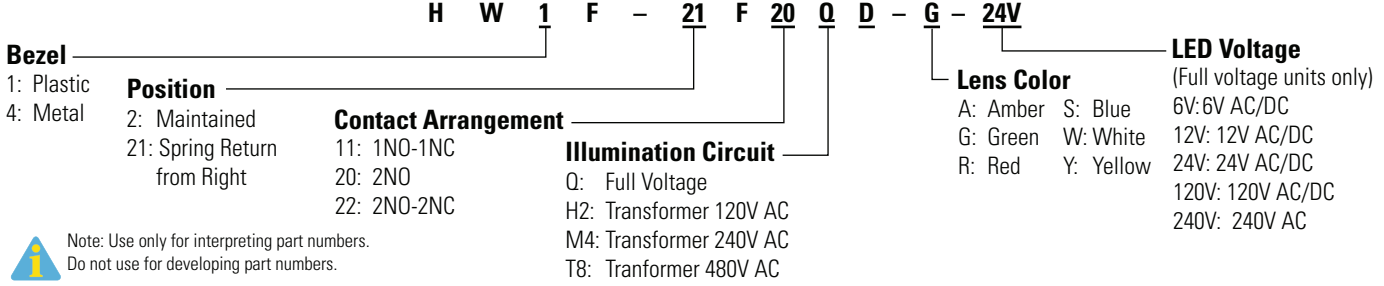
③ Full Voltage Code

Full Voltage Models	
Voltage	Code
6VAC/DC	6V
12VAC/DC	12V
24VAC/DC	24V
120V AC/DC	120V
240V AC	240V

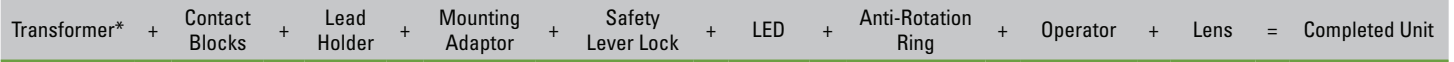
⑤ Bezel Code

Type	Code
Plastic	1
Metal	4

Part Number Structure



Illuminated Selector Switches 2-Position (Replacement Parts)



*Transformer not needed with full voltage models.

Lamp Circuit Components

Style	Description	Terminals	Part Number
Lead Holder	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
Dummy Block with Full Voltage Adaptor	For use with odd number of contacts.	Finger-Safe	HW-DA1FBN
Full Voltage Adaptor	For use with even number of contacts.	Finger-Safe	TW-DA1FB
Transformer Unit (6V secondary voltage)	120VAC 240VAC 480VAC	Finger-Safe	TW-F126B TW-F246B TW-F486B
DC-DC Converter	110VDC		HW-L16D

- DC-DC convertor features spring-up terminals.
- DC-DC convertor applicable voltage range 90-140V DC.

Operators

Style	Description	Plastic Bezel	Metal Bezel
	Maintained	HW1F-2	HW4F-2
	Spring return from right	HW1F-21	HW4F-21

Illuminated knobs must be ordered separately.

Contact Blocks

Style	Contacts	1NO	1NC
	Finger-Safe Spring-Up Terminal	HW-U10-F HW-U10R-F (early make)	HW-U01-F HW-U01R-F (late break)

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL

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

Safety Lever Lock

Style	Part Number
	HW9Z-LS

Illuminated Knob

Appearance	Part Number
	HW9Z-FDY-⊙-K

In place of ⊙, specify the Color Code.

⊙ Lens Color Code

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

Anti-Rotation Ring

Style	Part Number
	HW9Z-RL

Use with notched panel cutout to prevent unit rotation.

LED Lamps

Style	Voltage	Part Number
	6V AC/DC	LSRD-6
	12V AC/DC	LSRD-1
	24V AC/DC	LSRD-2
	120V AC/DC	LSRD-H2
	240V AC	LSRD-M4

- All LED lamps are white
- The LED contains a current-limiting resistor and reverse polarity protection diodes.

Illuminated Selector Switches 3-Position (Assembled)



3-Position Illuminated Selector Switches

Contact	Mounting	Style			Part Number					
		Operator Position			Type	Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way	
		L	C	R						
<i>Operator Only</i>						HW⊙F-3⊙	HW⊙F-31⊙	HW⊙F-32⊙	HW⊙F-33⊙	
1NO-1NC	1 2	0 0	X 0	X X	Full Voltage	HW⊙F-3F11QD-⊙-⊙	HW⊙F-3F11QD-⊙-⊙	HW⊙F-3F11QD-⊙-⊙	HW⊙F-3F11QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F11H2D-⊙	HW⊙F-3F11H2D-⊙	HW⊙F-3F11H2D-⊙	HW⊙F-3F11H2D-⊙
						240V	HW⊙F-3F11M4D-⊙	HW⊙F-3F11M4D-⊙	HW⊙F-3F11M4D-⊙	HW⊙F-3F11M4D-⊙
2NO	1 2	X 0	0 0	0 X	Full Voltage	HW⊙F-3F20QD-⊙-⊙	HW⊙F-3F20QD-⊙-⊙	HW⊙F-3F20QD-⊙-⊙	HW⊙F-3F20QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F20H2D-⊙	HW⊙F-3F20H2D-⊙	HW⊙F-3F20H2D-⊙	HW⊙F-3F20H2D-⊙
						240V	HW⊙F-3F20M4D-⊙	HW⊙F-3F20M4D-⊙	HW⊙F-3F20M4D-⊙	HW⊙F-3F20M4D-⊙
2NC	1 2	0 X	X X	X 0	Full Voltage	HW⊙F-3F02QD-⊙-⊙	HW⊙F-3F02QD-⊙-⊙	HW⊙F-3F02QD-⊙-⊙	HW⊙F-3F02QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F02H2D-⊙	HW⊙F-3F02H2D-⊙	HW⊙F-3F02H2D-⊙	HW⊙F-3F02H2D-⊙
						240V	HW⊙F-3F02M4D-⊙	HW⊙F-3F02M4D-⊙	HW⊙F-3F02M4D-⊙	HW⊙F-3F02M4D-⊙
2NO-2NC	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	Full Voltage	HW⊙F-3F22QD-⊙-⊙	HW⊙F-3F22QD-⊙-⊙	HW⊙F-3F22QD-⊙-⊙	HW⊙F-3F22QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F22H2D-⊙	HW⊙F-3F22H2D-⊙	HW⊙F-3F22H2D-⊙	HW⊙F-3F22H2D-⊙
						240V	HW⊙F-3F22M4D-⊙	HW⊙F-3F22M4D-⊙	HW⊙F-3F22M4D-⊙	HW⊙F-3F22M4D-⊙
4NO	1 2 3 4	X 0 X 0	0 0 0 X	0 X 0 X	Full Voltage	HW⊙F-3F40QD-⊙-⊙	HW⊙F-3F40QD-⊙-⊙	HW⊙F-3F40QD-⊙-⊙	HW⊙F-3F40QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F40H2D-⊙	HW⊙F-3F40H2D-⊙	HW⊙F-3F40H2D-⊙	HW⊙F-3F40H2D-⊙
						240V	HW⊙F-3F40M4D-⊙	HW⊙F-3F40M4D-⊙	HW⊙F-3F40M4D-⊙	HW⊙F-3F40M4D-⊙
4NC	1 2 3 4	0 X 0 X	X X X 0	X 0 X 0	Full Voltage	HW⊙F-3F04QD-⊙-⊙	HW⊙F-3F04QD-⊙-⊙	HW⊙F-3F04QD-⊙-⊙	HW⊙F-3F04QD-⊙-⊙	
					Transformer	120V	HW⊙F-3F04H2D-⊙	HW⊙F-3F04H2D-⊙	HW⊙F-3F04H2D-⊙	HW⊙F-3F04H2D-⊙
						240V	HW⊙F-3F04M4D-⊙	HW⊙F-3F04M4D-⊙	HW⊙F-3F04M4D-⊙	HW⊙F-3F04M4D-⊙



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- In place of ⊙ specify Full Voltage code.
- In place of ⊙ enter 1 for plastic bezel or 4 for metal bezel.
- For nameplates, see page 677.
- For contact assembly part numbers, see page 682.
- Light is independent of switch position.
- All assembled part numbers in catalog include standard Finger-Safe spring-up (HW-U..) contacts.

8. Yellow selector switch comes with white LED.

- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 690.

⊙ Lens Color

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

⊙ Full Voltage Code

Full Voltage Models	
Voltage	Code
6VAC/DC	6V
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⊙ Bezel Code

Type	Code
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Metal	4

Switches & Pilot Devices

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Part Number Structure

H W 1 F - 31 F 20 Q D - G - 24V

Bezel
1: Plastic
4: Metal

Position
3: Maintained
31: Spring Return from Right
32: Spring Return from Left
33: Spring Return 2-Way

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

Illumination Circuit
Q: Full Voltage
H2: Transformer 120V AC
M4: Transformer 240V AC
T8: Transformer 480V AC

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

Full Voltage Code
6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC/DC
240V: 240V AC

Note: Use only for interpreting part numbers. Do not use for developing part numbers.

Illuminated Selector Switches 3-Position (Replacement Parts)

Transformer* + Contact Blocks + Lead Holder + Mounting Adaptor + Safety Lever Lock + LED + Anti-Rotation Ring + Operator + Lens = Completed Unit



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2. DC-DC convertor applicable voltage range 90-140V DC.

Operators

Style	Description	Plastic Bezel	Metal Bezel
	Maintained	HW1F-3	HW4F-3
	Spring return from right	HW1F-31	HW4F-31
	Spring return from left	HW1F-32	HW4F-32
	2-Way spring return	HW1F-33	HW4F-33

Illuminated knobs must be ordered separately.

Contact Blocks

Style	Contacts	1NO	1NC
Finger-Safe Spring-Up Terminal		HW-U10-F HW-U10R-F (early make)	HW-U01-F HW-U01R-F (late break)

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Illuminated Knob

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Anti-Rotation Ring

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LED Lamps

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	24V AC/DC	LSRD-2
	120V AC/DC	LSRD-H2
	240V AC	LSRD-M4

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2. The LED contains a current-limiting resistor and reverse polarity protection diodes.