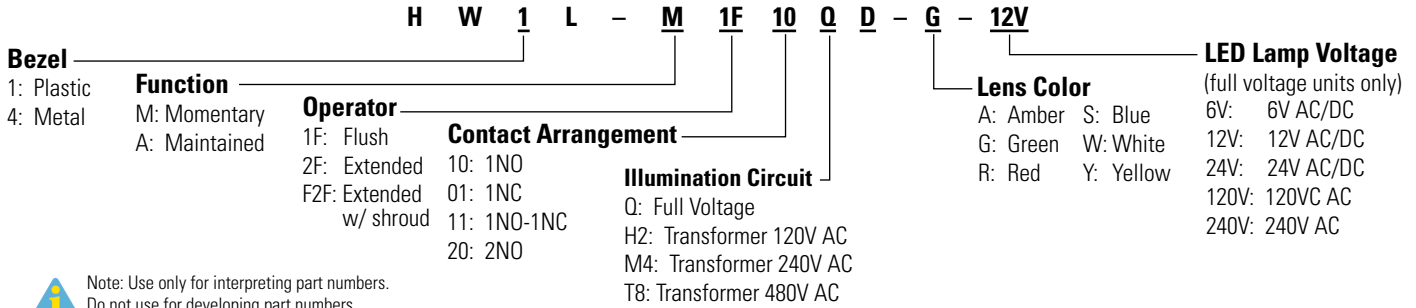


Part Number Structure



Illuminated Round Pushbuttons (Replacement Parts)



*Transformer not needed with full voltage models.

Lamp Circuit Components

Style	Description	Terminals	Part Number
	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
	For use with odd number of contacts.	Finger-Safe	HW-DA1FBN
	For use with even number of contacts.	Finger-Safe	TW-DA1FB
	120VAC 240VAC 480VAC	Finger-Safe	TW-F126B TW-F246B TW-F486B
	110VDC		HW-L16D

1. *With spring-up terminals - to use spring-up terminal type, must use transformer type operator designed for spring-up transformer.
 2. ** DC-DC converter voltage input from 90-140V DC.

Operators

Style		Plastic Bezel	Metal Bezel
	Momentary	HW1L-M0	HW4L-M0
	Maintained	HW1L-A0	HW4L-A0
	Momentary	HW1L-MF0	HW4L-MF0
	Maintained	HW1L-AF0	HW4L-AF0

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)

1. All assembled part numbers in catalog include standard finger-safe spring-up (HW-U...) contacts.

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL

1. Used to mount contact blocks to operator (first pair only).
 2. IDEC 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

Lenses

Style	Part Number
	HW1A-L1-⊙
	HW1A-L2-⊙

- In place of ⊙, specify the Lens Color Code from previous page.

Anti-Rotation Ring

Appearance	Part Number
	HW9Z-RL

- Use with notched panel cutout to prevent unit rotation.

LED Lamps

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

1. In place of ⊙, specify the LED Color Code.
 2. The LED contains a current-limiting resistor and reverse polarity protection diodes.
 3. Yellow LED not available, use white LED when using yellow lens.

Part Number Structure

H W 1 L - M 1 F 10 Q D - G - 12V

Bezel
 1: Round Plastic
 2: Square Plastic
 4: Round Metal

Function
 M: Momentary
 A: Maintained

Operator
 1: Square Flush
 4: Mushroom

Contact Arrangement
 10: 1NO
 01: 1NC
 11: 1NO-1NC
 20: 2NO

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

Voltage
 (full voltage units only)
 6V: 6V AC/DC
 12V: 12V AC/DC
 24V: 24V AC/DC
 120V: 120V AC
 240V: 240V AC

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

Illuminated Mushroom & Square Pushbuttons (Replacement Parts)

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

- *With spring-up terminals - to use spring-up terminal type, must use transformer type operator designed for spring-up transformer.
- ** DC-DC converter voltage input from 90-140V DC.

Operators

Style	Plastic Bezel	Metal Bezel
ø40mm Mushroom	Momentary	HW1L-M0L HW4L-M0L
	Maintained	HW1L-A0L HW4L-A0L
Square	Momentary	HW2L-M0
	Maintained	HW2L-A0

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)

- All assembled part numbers in catalog include standard finger-safe spring-up contacts (HW-U...).

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL

- Used to mount contact blocks to operator (first pair only).
- IDEC strongly recommends using the safety lever lock 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.

Safety Lever Lock

Style	Part Number
	HW9Z-LS

Lenses

Style	Part Number
ø40mm Mushroom Lens	ALW4BLU-⊙*
Square Flush	HW2A-L1-⊙

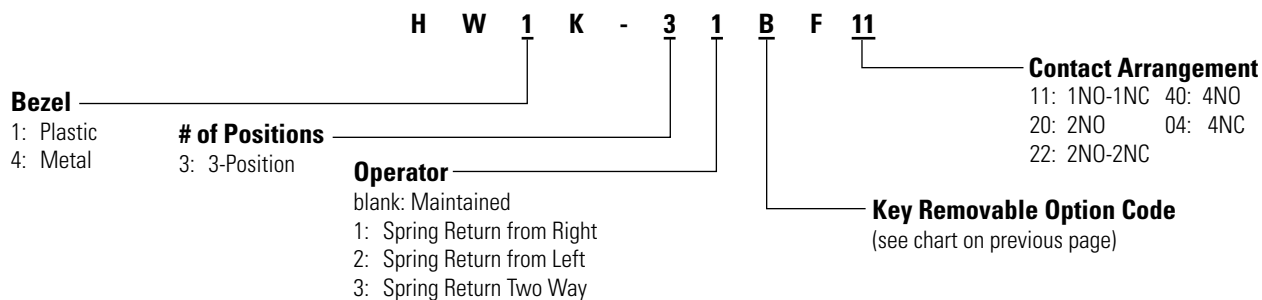
- In place of ⊙, specify the Lens Color Code.
- *Mushroom lens not available in yellow.


LED Lamps

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

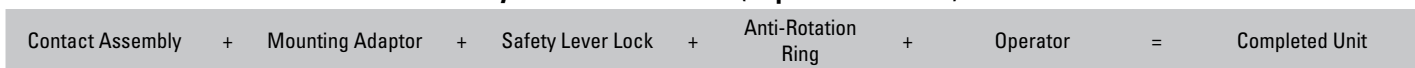
- In place of ⊙, specify the LED Color Code.
- The LED contains a current-limiting resistor and reverse polarity protection diodes.
- Yellow LED not available, use white LED when using yellow lens.

Part Number Structure





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


Key Switches 3-Position (Replacement Parts)



Contact Blocks


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

Safety Lever Lock

Style	Part Number
	HW9Z-LS


Anti-Rotation Ring

Style	Part Number
	HW9Z-RL


 Use with notched panel cutout to prevent unit rotation.


Contact Block Mounting Adaptor

Style	Part Number
	HW-CB2C

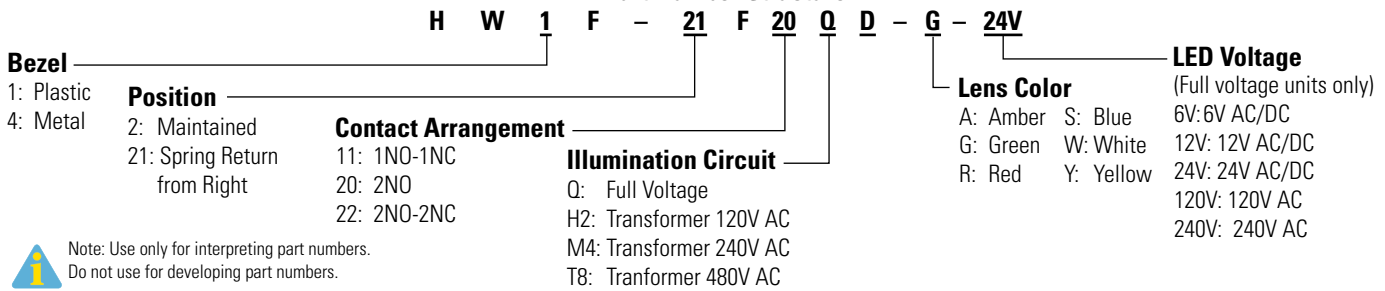
-  1. Used to mount contact blocks to operator (first pair only).
2. IDEC strongly recommends using the safety lever lock to prevent heavy vibration or maintenance personnel from inadvertently unlocking contacts.

Operators

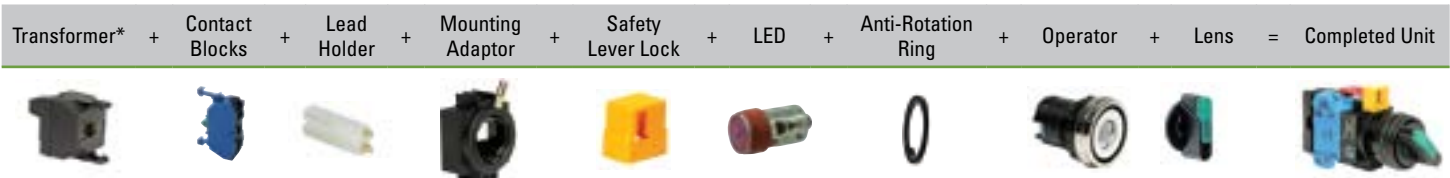
Style	Description	Plastic Bezel	Metal Bezel
	Maintained (standard cam)	HW1K-3A	HW4K-3A
	Maintained (S cam)	HW1K-3SA	HW4K-3SA
	Maintained (J cam)	HW1K-3JA	HW4K-3JA
	Spring Return from Right (standard cam)	HW1K-31B	HW4K-31B
	Spring Return from Left (standard cam)	HW1K-32C	HW4K-32C
	2-Way Spring Return (standard cam)	HW1K-33D	HW4K-33D

-  1. Operator includes two keys.
2. All standard operators are keyed alike.
3. Other key removable options available. See table on previous page.
4. Key not removable from spring-returned position

Part Number Structure



Illuminated Selector Switches 2-Position (Replacement Parts)



Note: *Transformer not needed with full voltage models.

Lamp Circuit Components

Style	Description	Terminals	Part Number
	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
	For use with odd number of contacts.	Finger-Safe	HW-DA1FBN
	For use with even number of contacts.	Finger-Safe	TW-DA1FB
	120VAC 240VAC 480VAC	Finger-Safe	TW-F126B TW-F246B TW-F486B
	110VDC		HW-L16D

- DC-DC converter features spring-up terminals.
- DC-DC converter 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

Note: 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).
- IEC 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-⊙

Note: In place of ⊙, specify the Color Code.

⊙ Lens/LED 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

Note: Use with notched panel cutout to prevent unit rotation.

Lamps

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

- In place of ⊙, specify the LED Color Code.
- The LED contains a current-limiting resistor and reverse polarity protection diodes.
- Use white LED for yellow lens. Yellow LED not available.

Illuminated Selector Switches 3-Position (Assembled)



3-Position Illuminated Selector Switches

Contact	Mounting	Style			Type	Part Number				
		Operator Position				Maintained	Spring Return from Right	Spring Return from Left	Spring Return Two-Way	
		L	C	R		L C R	L C R	L C R	L C R	
<i>Operator Only</i>						HW⊙F-3②	HW⊙F-31②	HW⊙F-32②	HW⊙F-33②	
1NO-1NC	1 2	0 0	X 0	X X	Full Voltage	HW⊙F-3F11QD-②-③	HW⊙F-31F11QD-②-③	HW⊙F-32F11QD-②-③	HW⊙F-33F11QD-②-③	
					Transformer	120V	HW⊙F-3F11H2D-②	HW⊙F-31F11H2D-②	HW⊙F-32F11H2D-②	HW⊙F-33F11H2D-②
						240V	HW⊙F-3F11M4D-②	HW⊙F-31F11M4D-②	HW⊙F-32F11M4D-②	HW⊙F-33F11M4D-②
2NO	1 2	X 0	0 0	0 X	Full Voltage	HW⊙F-3F20QD-②-③	HW⊙F-31F20QD-②-③	HW⊙F-32F20QD-②-③	HW⊙F-33F20QD-②-③	
					Transformer	120V	HW⊙F-3F20H2D-②	HW⊙F-31F20H2D-②	HW⊙F-32F20H2D-②	HW⊙F-33F20H2D-②
						240V	HW⊙F-3F20M4D-②	HW⊙F-31F20M4D-②	HW⊙F-32F20M4D-②	HW⊙F-33F20M4D-②
2NC	1 2	0 X	X X	X 0	Full Voltage	HW⊙F-3F02QD-②-③	HW⊙F-31F02QD-②-③	HW⊙F-32F02QD-②-③	HW⊙F-33F02QD-②-③	
					Transformer	120V	HW⊙F-3F02H2D-②	HW⊙F-31F02H2D-②	HW⊙F-32F02H2D-②	HW⊙F-33F02H2D-②
						240V	HW⊙F-3F02M4D-②	HW⊙F-31F02M4D-②	HW⊙F-32F02M4D-②	HW⊙F-33F02M4D-②
2NO-2NC	1 2 3 4	X 0 0 X	0 0 X X	0 X X 0	Full Voltage	HW⊙F-3F22QD-②-③	HW⊙F-31F22QD-②-③	HW⊙F-32F22QD-②-③	HW⊙F-33F22QD-②-③	
					Transformer	120V	HW⊙F-3F22H2D-②	HW⊙F-31F22H2D-②	HW⊙F-32F22H2D-②	HW⊙F-33F22H2D-②
						240V	HW⊙F-3F22M4D-②	HW⊙F-31F22M4D-②	HW⊙F-32F22M4D-②	HW⊙F-33F22M4D-②
4NO	1 2 3 4	X 0 X 0	0 0 0 0	0 X 0 X	Full Voltage	HW⊙F-3F40QD-②-③	HW⊙F-31F40QD-②-③	HW⊙F-32F40QD-②-③	HW⊙F-33F40QD-②-③	
					Transformer	120V	HW⊙F-3F40H2D-②	HW⊙F-31F40H2D-②	HW⊙F-32F40H2D-②	HW⊙F-33F40H2D-②
						240V	HW⊙F-3F40M4D-②	HW⊙F-31F40M4D-②	HW⊙F-32F40M4D-②	HW⊙F-33F40M4D-②
4NC	1 2 3 4	0 X 0 X	X X X X	X 0 X 0	Full Voltage	HW⊙F-3F04QD-②-③	HW⊙F-31F04QD-②-③	HW⊙F-32F04QD-②-③	HW⊙F-33F04QD-②-③	
					Transformer	120V	HW⊙F-3F04H2D-②	HW⊙F-31F04H2D-②	HW⊙F-32F04H2D-②	HW⊙F-33F04H2D-②
						240V	HW⊙F-3F04M4D-②	HW⊙F-31F04M4D-②	HW⊙F-32F04M4D-②	HW⊙F-33F04M4D-②
					480V	HW⊙F-3F04T8D-②	HW⊙F-31F04T8D-②	HW⊙F-32F04T8D-②	HW⊙F-33F04T8D-②	



- In place of ⊙ specify Lens/LED color code.
- In place of ⊙ specify Full Voltage code.
- In place of ⊙ enter 1 for plastic bezel or 4 for metal bezel.
- For nameplates, see page 680.
- For contact assembly part numbers, see page 685.
- Light is independent of switch position.
- All assembled part numbers in catalog include standard Finger-Safe spring-up (HW-U..) contacts.
- Yellow selector switch comes with white LED.**
- Additional contact configurations available (up to 6 total contacts).
- For Truth Tables see page 693.

② Lens/LED Color

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	120V
240V AC	240V

⑤ Bezel Code

Type	Code
Plastic	1
Metal	4

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
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




 *Transformer not needed with full voltage models.


Lamp Circuit Components

Style	Description	Terminals	Part Number
	For use with HW-CBL on all illuminated pushbutton units. One required for each deck (pair) of contacts.		HW-LH3
	For use with odd number of contacts.	Finger-Safe	HW-DA1FBN
	For use with even number of contacts.	Finger-Safe	TW-DA1FB
	120VAC 240VAC 480VAC	Finger-Safe	TW-F126B TW-F246B TW-F486B
	110VDC		HW-L16D

 1. DC-DC convertor features spring-up terminals.
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)

Contact Block Mounting Adaptor

Style	Part Number
	HW-CBL


 1. Used to mount contact blocks to operator (first pair only).
2. IDEC 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-⊙


 In place of ⊙, specify the Color Code.

⊙ Lens/LED 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.

Lamps

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

 1. In place of ⊙, specify the LED Color Code.
2. The LED contains a current-limiting resistor and reverse polarity protection diodes.
3. Use white LED for yellow lens. Yellow LED not available.