

Illuminated Pushbuttons (Assembled)



Assembled Illuminated Pushbuttons

A L (F) W 2 (B) 99 11 (D) - R - (24V)

Function

L: Momentary Action
OL: Maintained Action

Bezel Shape

Blank: Octagonal (round lenses)
F: Full Shroud (round lenses)
Q: Square

Series Designation

W: TW series

Lens Shape/Size

2: Standard Extended (round or square)
3: 29mm Mushroom
4: 40mm Mushroom

Lens Type

Blank: Standard (ribbed)
B: Engravable (smooth with insert)

Illumination Circuit

99: Full Voltage (lamp determines voltage)
126: 120V AC Step Down Transformer
246: 240V AC Step Down Transformer
486: 480V AC Step Down Transformer

Lamp Voltage

(Full Voltage Units Only)

6V: 6V AC/DC
12V: 12V AC/DC
24V: 24V AC/DC
120V: 120V AC
240V: 240V AC

Lens Code

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

Lamp Type

D: LED Lamp

Contact Arrangement

10: 1NO 01: 1NC
20: 2NO 02: 2NC
11: 1NO-1NC 22: 2NO-2NC

1. Use only when interpreting part numbers. Do not use for developing part numbers.
2. Transformers step down to 6V.


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Illuminated Pushbuttons

Style	Contacts	Part Number		
		Momentary	Maintained	
 Extended Lens	Transformer	1NO-1NC 2NO 2NC	ALW2 ⊕ 11D-② ALW2 ⊕ 20D-② ALW2 ⊕ 02D-②	AOLW2 ⊕ 11D-② AOLW2 ⊕ 20D-② AOLW2 ⊕ 02D-②
	Full Voltage	1NO-1NC 2NO 2NC	ALW29911D-②-③ ALW29920D-②-③ ALW29902D-②-③	AOLW29911D-②-③ AOLW29920D-②-③ AOLW29902D-②-③
 Extended Lens with Full Shroud	Transformer	1NO-1NC 2NO 2NC	ALFW2 ⊕ 11D-② ALFW2 ⊕ 20D-② ALFW2 ⊕ 02D-②	AOLFW2 ⊕ 11D-② AOLFW2 ⊕ 20D-② AOLFW2 ⊕ 02D-②
	Full Voltage	1NO-1NC 2NO 2NC	ALFW29911D-②-③ ALFW29920D-②-③ ALFW29902D-②-③	AOLFW29911D-②-③ AOLFW29920D-②-③ AOLFW29902D-②-③
 ø29mm Mushroom Button	Transformer	1NO-1NC 2NO 2NC	ALW3 ⊕ 11D-② ALW3 ⊕ 20D-② ALW3 ⊕ 02D-②	AOLW3 ⊕ 11D-② AOLW3 ⊕ 20D-② AOLW3 ⊕ 02D-②
	Full Voltage	1NO-1NC 2NO 2NC	ALW39911D-②-③ ALW39920D-②-③ ALW39902D-②-③	AOLW39911D-②-③ AOLW39920D-②-③ AOLW39902D-②-③
 ø40mm Mushroom Button	Transformer	1NO-1NC 2NO 2NC	ALW4 ⊕ 11D-② ALW4 ⊕ 20D-② ALW4 ⊕ 02D-②	AOLW4 ⊕ 11D-② AOLW4 ⊕ 20D-② AOLW4 ⊕ 02D-②
	Full Voltage	1NO-1NC 2NO 2NC	ALW49911D-②-③ ALW49920D-②-③ ALW49902D-②-③	AOLW49911D-②-③ AOLW49920D-②-③ AOLW49902D-②-③
 Square Extended	Transformer	1NO-1NC 2NO 2NC	ALQW2B ⊕ 11D-② ALQW2B ⊕ 20D-② ALQW2B ⊕ 02D-②	AOLQW2B ⊕ 11D-② AOLQW2B ⊕ 20D-② AOLQW2B ⊕ 02D-②
	Full Voltage	1NO-1NC 2NO 2NC	ALQW2B9911D-②-③ ALQW2B9920D-②-③ ALQW2B9902D-②-③	AOLQW2B9911D-②-③ AOLQW2B9920D-②-③ AOLQW2B9902D-②-③

② LED/Lens Color Codes

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

-  1. Mushroom lenses not available in yellow.
- 2. Yellow pushbutton comes with white LED.


③ Full Voltage Codes

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

④ Transformer Voltage Codes

Voltage	Code
120VAC	126
240VAC	246
480VAC	486

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

-  1. In place of ⊕, specify the Lens Color Code (see table). Mushroom lenses not available in yellow.
- 2. In place of ⊖, specify the Full Voltage Code (lamp voltage) (see table).
- 3. In place of ⊕, specify the Transformer Voltage Code (see table).
- 4. For sub-assembly part numbers, see next page.
- 5. For accessories, see page 703.
- 6. For dimensions, see page 705.
- 7. Light is independent of switch position.
- 8. Yellow pushbutton comes with white LED.

Illuminated Pushbuttons (Sub-Assembled)



*Not applicable for full voltage units

Operators

Style	Image	Part Number	
		Momentary	Maintained
Extended		ALW-0600	AOLW-0600
Extended with Full Shroud		ALFW-0600	AOLFW-0600
ø29mm/ø40mm Mushroom		ALW3-0600	AOLW3-0600
Square/Extended		ALQW-2B0600	AOLQW-2B0600

Lenses

Style	Image	Part Number	
		Standard	Engravable
Round Extended		ALW2LU-⊗	ALW2BLU-⊗
ø 29mm Mushroom Head*		ALW3LU-⊗	ALW3BLU-⊗
ø 40mm Mushroom Head*		ALW4LU-⊗	ALW4BLU-⊗
Square Extended		—	ALQW2BLU-⊗

- 1. In place of ⊗, specify the lens color code from table on the bottom right.
- 2. *Mushroom lens not available in yellow.
- 3. Standard lenses have ribbed pattern, Engravable lenses are smooth and include an engravable insert.

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 a protection diode.

Lamp Circuit Components

Style	Application	Part Number
Short Lamp Holder 	Used with full voltage adaptor. Always mounted directly to operator.	TW-LH1
Long Lamp Holder 	Used with Full-size Transformer and two contact blocks	TW-LH2
Lead Holder 	Used with TW-LH2 holder when using four contact blocks and transformer	HW-LH3



⊗ LED/Lens Color Codes

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

- Yellow LED not available. Use white LED.



Illuminated Pushbuttons (Sub-Assembled) continued

Contact Blocks

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

- 1. Dummy blocks (no contacts) are used with an odd number of contact blocks.
- 2. Use of early and late break contacts creates a make before break function

Transformers/Full Voltage Modules

Style	Description	Part Number
Full Size Transformer 	120V AC	HW-T126
	240V AC	HW-T246
	480V AC	HW-T486
Full voltage model (to be mounted to operator on the first deck) 	Spring-Up Terminals	HW-GA1N

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