

HH Illuminated Pushbutton Switch

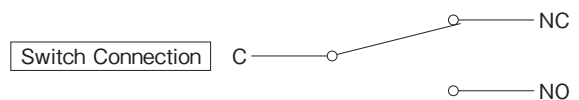
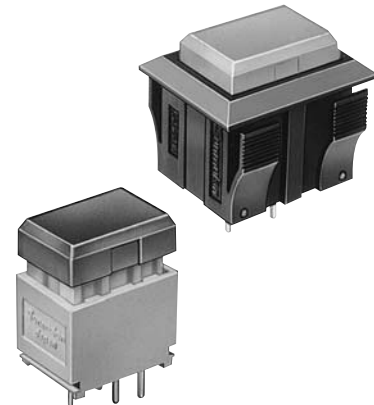
Short body 11.1mm, PCB terminal with Frange

■ FEATURES

Compact and space-saving, depth behind panel : 11.1mm
 LED Full-Face illumination available.
 Button size : 8×12 rectangular type.

Solder terminals and PCB terminals are available for compact body,
 have flux prevention correspondence.
 Attaching the flange to the PCB mounting type
 improves the upgrade of the panel design and maintenance.

Flange can also be attached to solder terminal type.



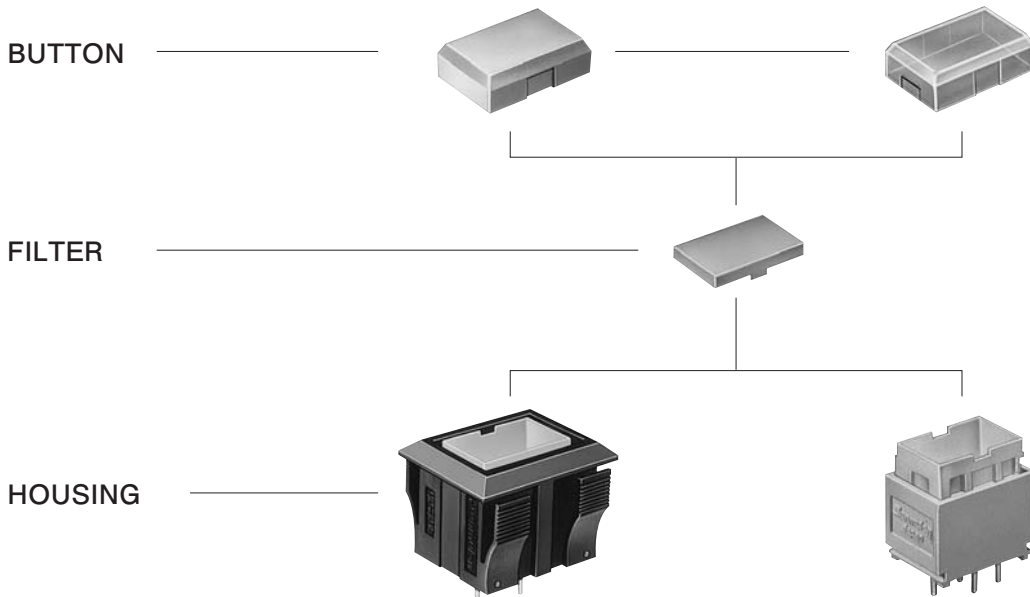
SPECIFICATIONS

Electrical Rating	AC、DC30V 0.05A (Resistive)
Contact	SPDT
Insulation Resistance	More than 100MΩ at 500V DC
Dielectric Strength	250V AC RMS between NC and NO terminal 500V AC RMS between terminals and ground 50/60Hz for 60 sec. at normal ambient temperature and humidity
Contact Resistance	Less than 50mΩ (Initial value) at DC6V 0.05A
Mechanical Life	More than 1,000,000 operations
Electrical Life	More than 300,000 operations (Initial value)
Ambient Temperature	-15°C~50°C
Ambient Humidity	80%RH (max.)

OPERATING CHARACTERISTICS

Operating Force (max.)	1.47N	Total Travel (max.)	2.0 mm
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STRUCTURE



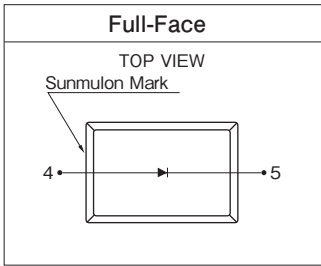
With a flange type, flange attachment / detachment is possible.

DIMENSIONS

<p>With a flange</p>				<p>TOP VIEW</p> <p>※The figure shows a solder terminal type.</p>
<p>Without a flange</p>				<p>TOP VIEW</p> <p>※The figure shows a PCB terminal type.</p>

Tolerance : $\pm 0.4\text{mm}$

INTERNAL CONNECTION ARRANGEMENTS

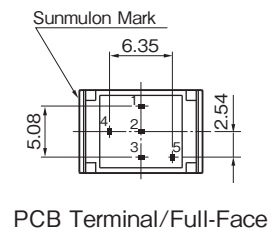
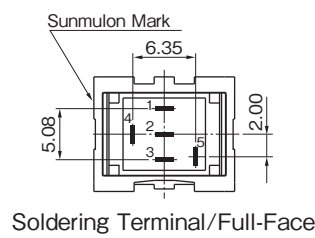


TERMINALS

● TERMINALS LAYOUT (BOTTOM VIEW)

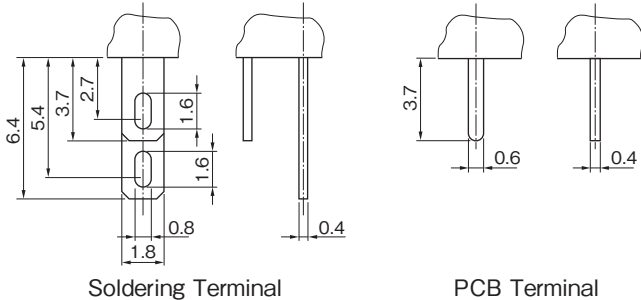
	Full-Face	Pin No.
SPDT		1 : COM 2 : NO 3 : NC 4 : LC 5 : L1
INDICATOR		

● TERMINALS DIMENSIONS (BOTTOM VIEW)

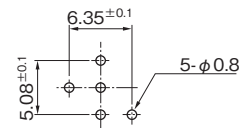


TERMINAL SHAPE / PCB HOLE CUT-OUT

● TERMINAL SHAPE



● PCB hole cut-out (BOTTOM VIEW)



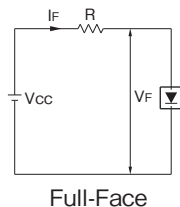
● LED RATINGS

Item	All colors		
Max. operating current I_{FM} (mA)	30		
DC Reverse voltage V_R (V)	5		
Forward voltage V_F (V)	2.1 ($I_F=20mA$)		
Recommended operating current I_F (mA)	Red	Green	Yellow
	5	10	5

● EXTERNAL RESISTOR

Internal LED protective resistor is not incorporated.
Refer to the following valued series connection.

Color \ Voltage	5V	12V	24V
Red	620Ω 1/4W	2KΩ 1/4W	4.3KΩ 1/2W
Green	300Ω 1/4W	1KΩ 1/4W	2.2KΩ 1/2W
Yellow	620Ω 1/4W	2KΩ 1/4W	4.3KΩ 1/2W



※Please turn on the light under the following conditions when pulse lighting.

Width $P_W=100\mu S$, Duty ratio $D_R=10^{-1}$

$I_{FM}=100mA$ with Pulse

Please use the following formula when using at other voltages.

$$R = \frac{V_{CC} - V_F}{I_F}$$

V_{CC} : Power supply voltage

V_F : Voltage in regular direction

I_F : Recommended operating current

Tolerance : $\pm 0.4mm$

PANEL LAYOUT / PANEL CUT DIMENSIONS

● With a flange type

Panel thickness : 0.5mm~3.2mm

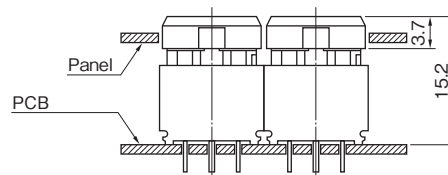
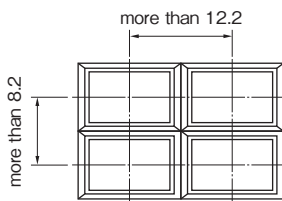
	Panel Layout	Panel cut Dimensions
Independent		
Serial		
Matrix	In case of group mounting, please leave a space as shown.	

Panel cut dimension should be after panel paintings.

n : number of switches

PANEL LAYOUT

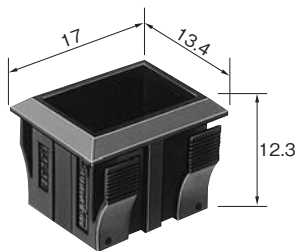
● Without a flange type



ACCESSORIES

Flange

By attaching to the PCB terminal type, it will improve the quality of panel design and maintenance. Also it can use for the panel mounting with soldering terminal type. (Fixed pin attached)



Part No.	
Color	8 × 12 Rectangular
Black	HH-2840-K
Gray	HH-2840-H

NOTE) Refer to the panel cut dimensions with a flange type.

Tolerance : ±0.4mm

ACCESSORIES

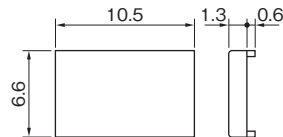
●BUTTON

	Red	Green	Yellow	Milk-White	Clear	Black
PART No.	HH-2794-1LR	HH-2794-1LG	HH-2794-1LY	HH-2794-1LM	HH-2794-2CC	HH-2794-1KK

●FILTER

	Red	Green	Yellow	Milk-White
PART No.	HH-2795-LR	HH-2795-LG	HH-2795-LY	HH-2795-LM

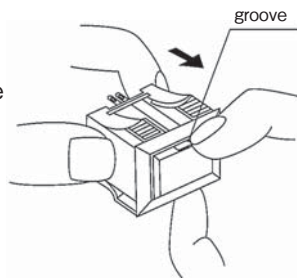
FILTER DIMENSION



ASSEMBLY & DISASSEMBLY

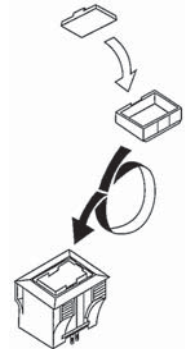
1. Removing Button

Hook fingernails in the groove and pull out.



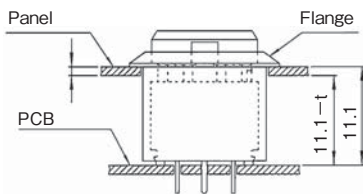
2. Fitting Filter

Set filter with the sandblast face upwards on to Button, then put Housing on.



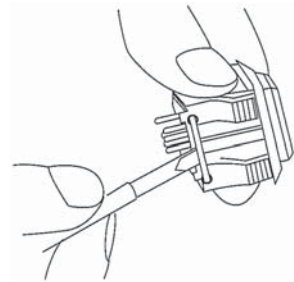
3. Fitting Flange

Attach the flange to the panel, insert the board attached switch from the panel surface and fix with the stud.



4. Removing Flange

Insert a flat screwdriver into the latch between the fixing pin and flange, and pull it out.

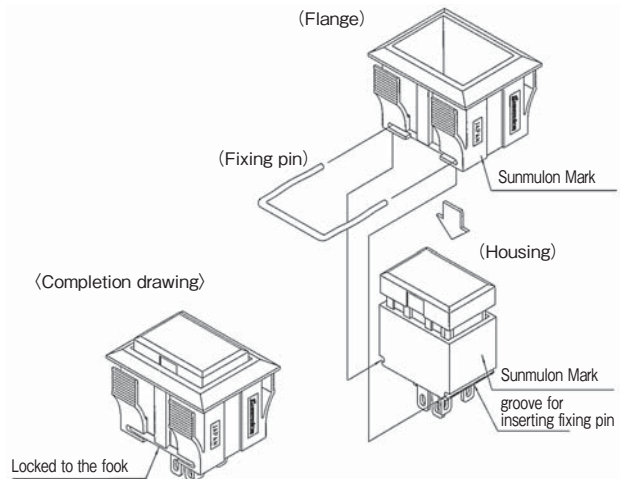


5. Flange

Insert the flange into the Housing with align the same surface Sunmulon Mark.

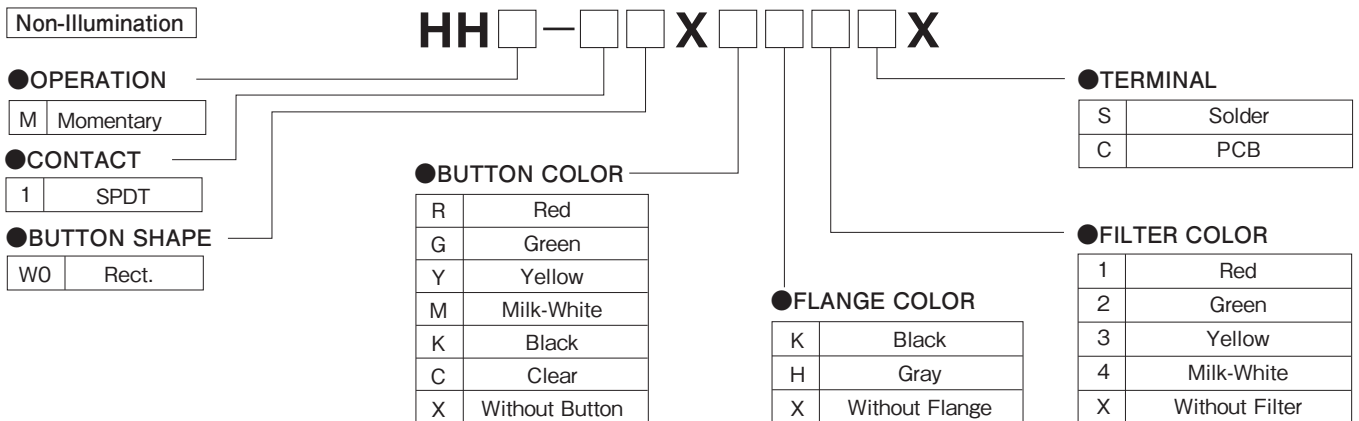
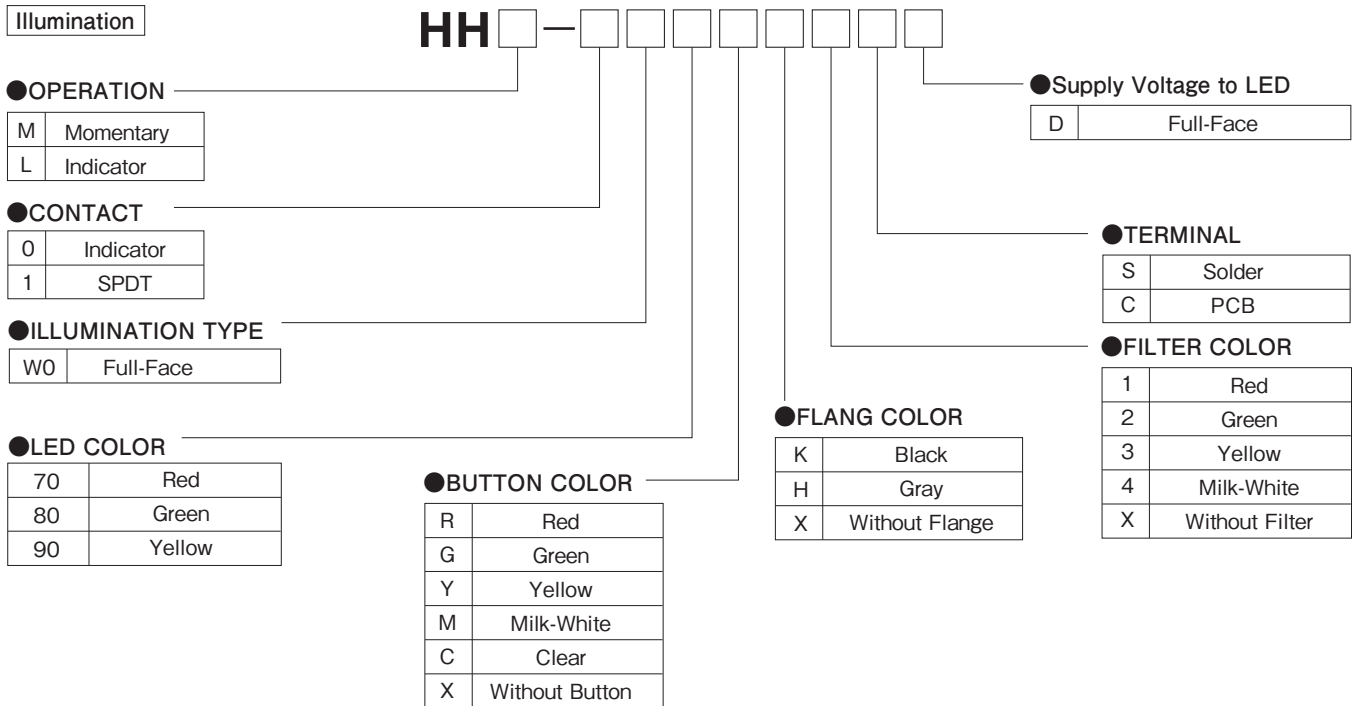
Insert the fixing pin into the hole on the side of the flange, and put it through in to the end of the groove on Housing.

Make sure the fixing pin is securely locked to the hook of the flange.



Tolerance : ±0.4mm

ORDERING CODE



1) The color of "Yellow" for LED, button, filter is actually "Orange Yellow" not Lemon Yellow.