







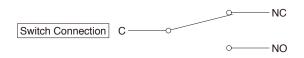
DH Subminiature Lighted Pushbutton Switch

Only 21.5mm depth behind panel with LED Full Face, Illumination.

■ FEATURES

- · Depth behind panel: Only 21.5mm.
- · LED Full Face Illumination provided.
- Button size: 14.2mm square type, 20.2mm round type.
- Incorporated snap action switch is furnished with coil spring.
 It assures long life (Mechanical: 2,000,000 operations min.)
 and good switching touch (450g max.)
- Contact mechanism has wiping action, and it's self-cleaning effect permits high reliability.





SPECIFICATIONS

Contact	Silver	Gold Plated Silver		
Rating	3A 125, 250V AC (Resistive Load)			
Insulation Resistance	Over 100MΩ at DC 500V meger			
	Between Terminals	Between Terminals : 1,000V AC RMS		
Dialoctric Strongth	Between Terminals and Ground : 1,500V AC RMS			
Dielectric Strength	Between Larnp Terminais: 400V AC RMS			
	(Both 50~60Hz in normal temperature & humidity in one minute)			
Contact Resistance	Under $30m\Omega$ (at initial) (at 1A 6V DC) Under $50m\Omega$ (at initial) by milliohmmeter			
Mechanical Life	Momentary: 2,000,000 operations (min.), Alternate: 200,000 operations (min.)			
Electrical Life	100,000 operations (min., at rated load)			
Ambient Temperature	−15°C~50°C			
Ambient Humidity	Under 80% RH			

OPERATING CHARACTERISTICS

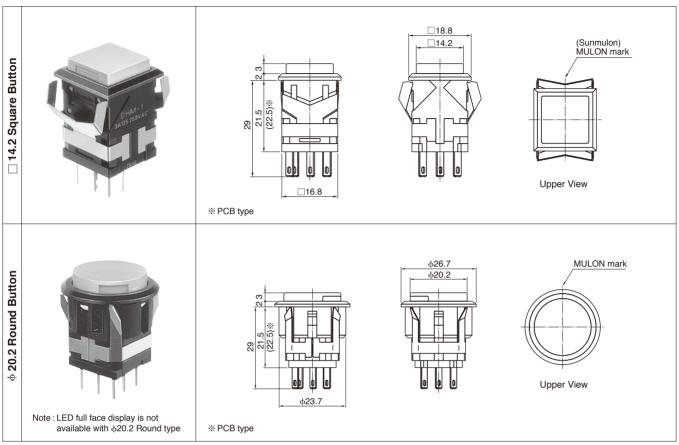
Operating Force (max.)	4.41N	Total Travel (mm Max.)	3
Operating Force (max.)	4.4 IIV	Total Havel (IIIIII IVIAX.)	





DIMENSIONS

● LED Full Face

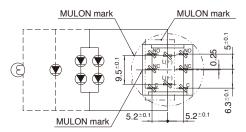


Tolerance : ±0.4mm

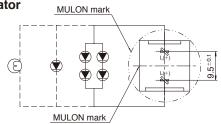


TERMINAL LAYOUT/INTERNAL ARRANGEMENT

Switch

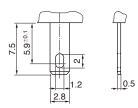


Indicator

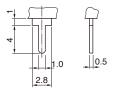


TERMINAL DIMENSIONS

TERMINAL SHAPE

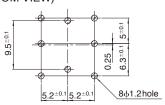






Printed Circuit Termimal

Printed Circuit Terminal Hole Dimensions (BOTTOM VIEW)



LED DATA

● LED Full Face Display(Calculated at 4 chips LED)

	LED Full Face	
ITEM	Parallel	
	Red, Yellow	Green
Max. Operating Current IFм (mA)	40	40
DC Reverse Voltage VR (V)	10	10
Forward Voltage V _F (V)	4	4.2
Recommended Operating Current IF (mA)	15	25

^{*} In case of pulse lighting, please note following conditions.

I_{FM}=120mA(DC current for one LED, all colors)

Where : Pulse width(PW)=100μsec.

Duty Rato (DR)=10⁻¹

EXTERNAL/STABILIZED RESISTOR

Internal LED protective or Neon stabilized resistor are not incorporated. Refer to the following values for series connection.

● LED Full Face Display(Calculated at 4 chips LED)

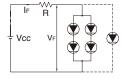
Voltage(V)	Red, Yellow	Green
5V (±5%)	100Ω 1/8W	33Ω 1/8W
14V (±5%)	620Ω 1/4W	330Ω 1/4W
28V (±5%)	1500Ω 1/2W	820Ω 1/2W

The value of the series resistor can be determined by the formula:

R= Vcc-VF

Vcc: Supply Voltage
VF: Forward Voltage

IF : Forward Current



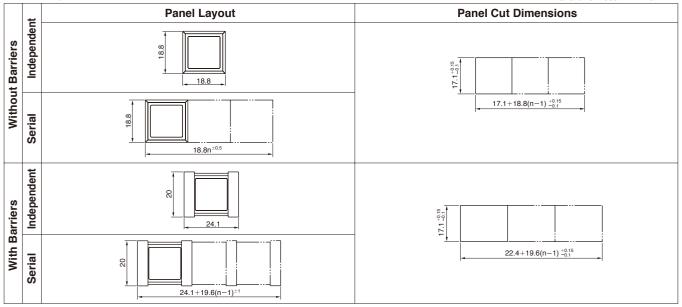




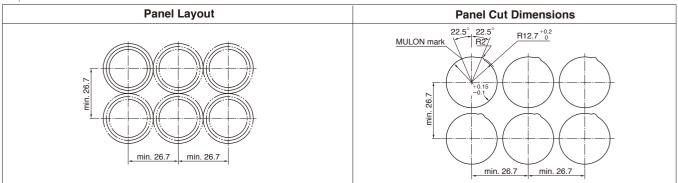
PANEL LAYOUT/PANEL CUT DIMENSIONS

● 14.2 Square Button

Panel thickness 1mm~3.2mm



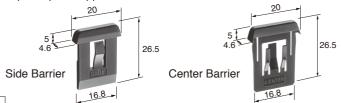
● **\$20.2** Round Button



OPTIONAL ACCESSORIES

Barriers

• Using Barriers helps prevent inadvertent actuation of neighboring switches with one push, if strip mounting is required. Also, they may improve panel appearance.



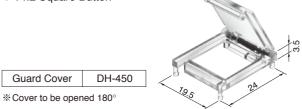
Color	Center Barrier	Side Barrier
Black	DH-324-B	DH-323-B
White	DH-324-W	DH-323-W

Guard Cover

• Guard Cover prevents inadvertent or unintentional operations. Button cannot be operated unless open clear cover.

Guard Cover is used with Guard Side or Guard Center Barriers. For strip mount, panel cutout dimensions are same as Barriers.









Color	Guard Center Barrier	Guard Side Barrier
Black	DH-443-B	DH-442-B
White	DH-443-W	DH-442-W

Tolerance : ±0.4mm

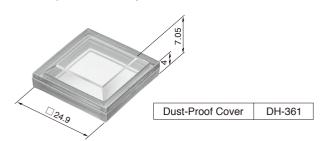




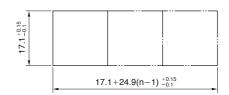
ACCESSORIES

Dust-Proof Cover

- Provides protection for switches or indicators from dust entering through the panel cutout.
 Please indicate parts numbers when order.
 - 14.2 Square Button only



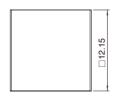
Panel Cut Dimensions

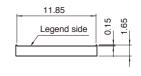


Panel thickness 1mm \sim 2.5mm

- n : Number of Switches
- * Dust-proof cover cannot be fitted with barriers or guard cover.

FILTER DIMENSIONS





REPLACEMENT PARTS

Please indicate parts Nos. when order

LED Full Face Display

One-piece type

Color		Part No.
		□14.2 Square
Solid Color	Red	DH-336-1LR
	Green	DH-336-1LG
	Yellow	DH-336-1LY
Projected Color	Milk White	DH-336-1M

Three-piece type

Color		Part No.		
		□14.2 Square Button	□12.15 Square Filter	
Solid Color	Red	DH-336-2C	DH-339-LR	
	Green	DH-336-2C	DH-339-LG	
	Yellow	DH-336-2C	DH-339-LY	
Projected Color	Milk White	DH-336-2C	DH-339-M	

Lamp Display

One-piece type

Color	Part No.		
	□14.2 Square Button	φ20.2 Round Button	
Red	DH-336-1R	DH-298-R	
Green	DH-336-1G	DH-298-G	
Yellow	DH-336-1Y	DH-298-Y	
Black	DH-336-1K	DH-298-K	
Milk White	DH-336-1M	DH-298-M	

Three-piece type

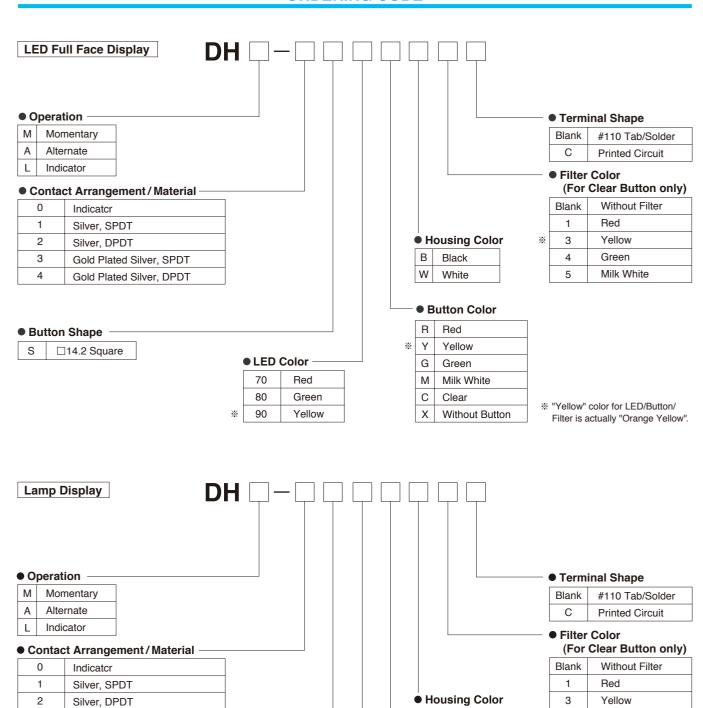
• ITII ee-bie	ce type			
Color		Part No.		
		□14.2 Square Button	□12.15 Square Filter	
	Red	DH-336-2C	DH-339-R	
Solid Color	Milk White	DH-336-2C	DH-339-M	
	Yellow	DH-336-2C	DH-339-Y	
	Green	DH-336-2C	DH-339-G	
Projected Color	Red	DH-336-1M	DH-339-R	
	Yellow	DH-336-1M	DH-339-Y	
	Green	DH-336-1M	DH-339-G	

Tolerance : ±0.4mm





ORDERING CODE



Button Shape

3

S	□14.2 Square
R	φ20.2 Round

Gold Plated Silver, SPDT

Gold Plated Silver, DPDT

Lamp Voltage

Blank	Without Socket
0	Without Lamp

Button Color

Black

White

Г	R	Red
	Υ	Yellow
	G	Green
Г	K	Black
	M	Milk White
	С	Clear
	Χ	Without Button

Clear Button is only for 14.2 Square type.

Green

Milk White