







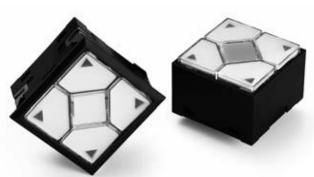
CA Cross Action Switch

Remarkable Cross Action Switch for versatile use

4-select button and 1-center button combination makes easy to mutiple control. It is also suitable for 4-way control switch such as Up/Down/Left/Right control.

■ FEATURES

- · Depth behind panel : Only 22.5mm
- · LED Spot display for 4-select button (not illuminate for center button)
- · Precision-snap action switch movement with coil spring assures long life and outstanding tactile feedback.
- · Terminal : Connector Type(Applied connector be appended), PCB Terminal



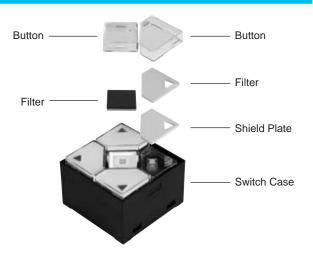
SPECIFICATIONS

Contact	Silver Contact (Gold Plated)	W/E Alloy #1 Cross-bar Contact			
Electrical Rating	,	,			
0	AC100V 1A, DC30V 1A (Resistive)	AC100V 0.1A, DC30V 0.1A(Resistive)			
Insulation Resistance	More than 100M at 500V DC				
	800V AC (connector)	800V AC (connector)			
Dielectric Strength (1000V AC RMS between NC and NO terminal(switch)) 1500V AC RMS between terminals and ground(switch) 50/60Hz for 60sec. At normal ambient temperature and humidit		(600V AC RMS between NC and NO terminal(switch) (1500V AC RMS between terminals and ground(switch) (50/60Hz for 60sec. At normal ambient temperature and humidit			
Contact Resistance	Less than 60m (Initial) at DC6V 1A	Less than 60m (Initial) at DC6V 0.1A			
Mechanical Life	More than 1,000,000 operations				
Electrical Life	More than 100,000 operations at max. rated load				
Ambient Temperature	15 C to 50 C				
Ambient Humidity	80% RH (max.)				

OPERATING CHARACTERISTICS

Operating Force (MAX.) 2.94N Total	Travel (mmMAX.) 1
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STRUCTURE



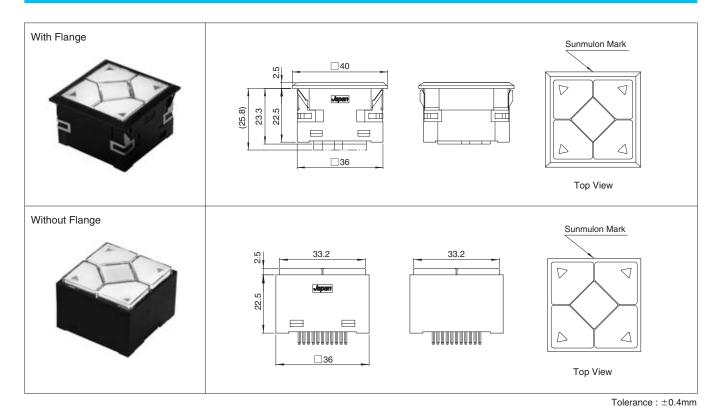




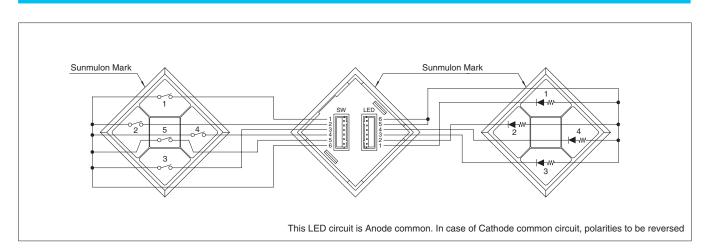




DIMENSIONS



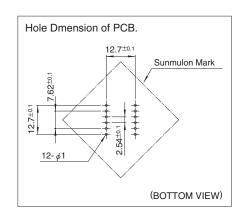
INTERNAL CONNECTION ARRANGEMENTS



TERMINALS LAYOUT

With Flange Sunmulon Mark Sunmulon Mark Swy 45 0 1 12.7 (BOTTOM VIEW)

TERMINAL SHAPE/HOLE DIMENSION







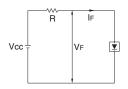




LED RATINGS

● LED RATINGS

Supply Voltage(V)	Current Rating (mA)					
±5%	Red	Green	Yellow	Blue		
5	10	10	10	2		
12	8	8	8	2		
24	8	8	8	2		



EXTERNAL RESISTOR

Switches are normally fitted with internal resistors to oprate on 5,12,24V DC supply. In case of non-resistor type, suitabale external current limiting resistors must be installed as shown by the table and formula.

	Color		Any voltage				
Item		Red	Green	Yellow	Blue		
Max. operating current IFM (mA)		30	30	30	30		
DC reverse voltage VR (V)		4.0	4.0	4.0	4.0		
Forward voltage VF (V)		2.0	2.0	2.1	3.7		
Recommended operating current IF (mA)		20	20	20	20		
Current Reduced Factor (Over 25°C working temperature)		0.4	0.4	0.4	0.4		

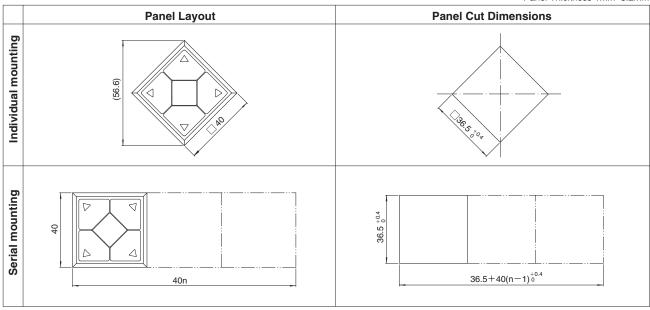
The value of the series resistor for other voltage use can be determined by theformula (Switch should be non resistor type):

R= Vcc-VF Vcc: Supply Voltage VF: Forward Voltage

IF : Forward Current

Panel Layout/Panel Cut Dimensions

Panel Thickness 1mm~3.2mm



n: number of switches

REPLACEMENT PARTS

BUTTON/FILTER

O DOTTO WITE LETT								
	Clear	Red Green		Yellow	Milk White			
Square Button (Center)	CH-2325-CC							
Pentagon Button (Select)	CA-3453-CC							
Square Filter (Center)		CH-2326-LR	CH-2326-LG	CH-2326-LY	CH-2326-LM			
Pentagon Filter (Select)		CA-3454-LR	CA-3454-LG	CA-3454-LO	CA-3454-LM			

APPLIED CONNECTOR

Connector Part No. : ST-3121

(1 pc. of Housing & 6 pcs. of Contact Pin)

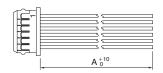
Contact Pin press Tool DF3-TA2428HC

Housing DF3-6S-2C Contact Pin DF3-2428SC (Hirose Electric Made)

Please select "Connector Appended" or not at "Ordering Code". In case of "Not appended", please select "N".

Wire Hearness

Wire: UL1007 AWG26, equivalent



A length	Part No.
250mm	ST-3120-1
500mm	ST-3120-2

Pin No.	1	2	3	4	5	6
Wire Color	Black	Blue	Green	Yellow	White	Red

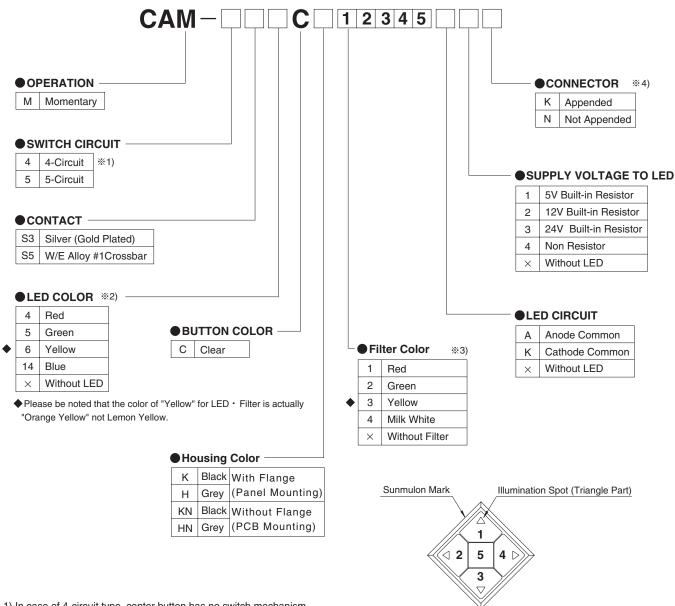












- $\ensuremath{\%}$ 1) In case of 4-circuit type, center button has no switch mechanism.
- ※ 2) LED Illumination is Spot Display type only.(Triangle Part of right figure)
 - LED Colors to be indicated as same color. Center button part is not illuminated.
- \divideontimes 3) Please fill number of Filter Colors according to order of indicated number in right figure.

Code number is coincident with number of figure.

Example: 44441 = Milk White for 4-select button, Red for center button.

💥 4) In case of Without Flange (PCB Mounting) type, please indicate "N" (Not appended) accordingly.