







TA 2-action Lighted Switch

Unique 2-action lighted switch which is useful to control two directions such UP/DOWN, LEFT/RIGHT etc.

BUTTON

FILTER





■ FEATURES

- · Depth behind panel:Only 22.5mm
- LED Full-Face, Split-Face, Dual-Color illumination available.
- · Hi-Bright LED Super Blue, Super Green available.
- Built-in resistor for 5V,12V,24V use.
- · Light Cartridge is removable from front panel.
- Precision-snap action switch movement with coil spring assures long life and outstanding tactile feedback.
- Silver Contact(Gold-Plated) and W/E Alloy #1 Cross-bar Contact provided.
- · Accessory: Guard Cover





SWITCH CASE





SPECIFICATIONS

Contact	Silver Contact (Gold-Plated)	W/E Alloy #1 Cross-bar Contact						
Electrical Rating	AC125V,250V 5A(Resistive)	AC125V 0.1A, DC30V 0.1A(Resistive)						
Insulation Resistance	More than 100M Ω at 500V DC							
	1000V AC RMS between NC and NO terminal	600V AC RMS between NC and NO terminal						
Dielectric Strength	1500V AC RMS between terminals and ground	1500V AC RMS between terminals and ground						
	50/60Hz for 60sec. at normal ambient temperature and humidity	50/60Hz for 60sec. at normal ambient temperature and humi						
Contact Resistance	Less than 30mΩ (Initial) at DC6V 1A	Less than 50m Ω (Initial) at DC6V 0.1A						
Mechanical Life	Momentary Action :more than 1,000,000 operations							
Electrical Life	More than 30,000 operations at max. rated load More than 100,000 operations at max. rated load							
Withstand Vibration	Double Amplitude 1.5mm, Vibration 10-55Hz at 2 hours							
Withstand Shock	More than 30G (miss indicate), More than 50G(endurance)							
Ambient Temperature	−15°C to +50°C							
Ambient Humidity	Less than 80% RH							

OPERATING CHARACTERISTICS

Operating Force(n	nax.)	Total Travel(max.)				
TA1, TA2, TA5, TA6, TA7	3.92N	TA1, TA2, TA5	3mm			
TA3, TA4	4.9N	TA3, TA4, TA6, TA7	5mm			

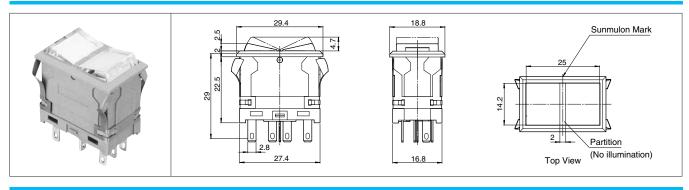








DIMENSIONS

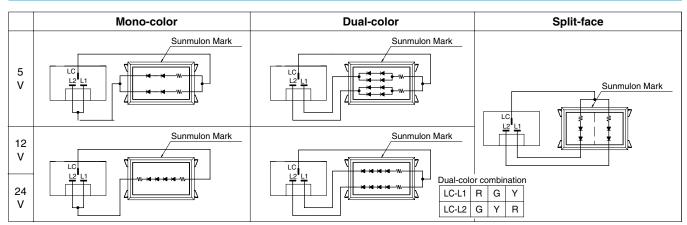


OPERATION/SWITCH CONNECTION

	View from "Japan mark" side												
		Operation		Switch Connection									
TA1	(Impossible to push from N position)	N	М	No switch	COM - NO - NO -	COM - NO -							
TA2	(Impossible to push from N position)	N	А	No switch	COM - NO - NO -	— NC							
ТАЗ	No switch	_	А	COM-NC NC	_	- NC NO NO							
TA4	Α	_	Α	COM COM-	_	NC NO NO							
TA5	M	N	M	COM COM-	COM COM	NC NC							
TA6	А	N	M	COM COM-NC NC NO NO	COM COM	COM COM							
TA7	А	N	А	NC NC NC	COM COM- NC NC NC	NC NC							

M: Momentary, A: Alternate, N: Neutral

INTERNAL CONNECTION

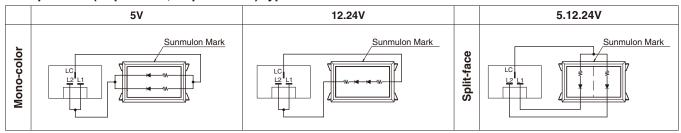


Tolerance : ± 0.4 mm



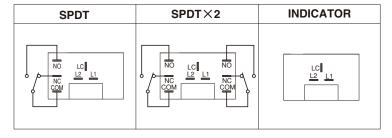
INTERNAL CONNECTION

Super LED (Super Blue, Super Green) type

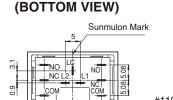


TERMINALS

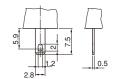
TERMINALS LAYOUT



TERMINALS DIMENSIONS (BOTTOM VIEW)



TERMINAL SHAPE



#110 TAB · Soldering Terminal

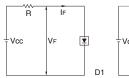
LED DATA

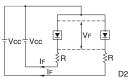
LED RATING

	Current Rating (mA)												
	Mono-Color			Dual-Color			Split-Face			Super LED	Mono-color	Super LED Split-Fac	
Supply Voltage	Red	Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	S. Blue	S. Green	S. Blue	S. Green
5 (±5%)	32			20			10			20	18	10	9
12 (±5%)	16			10			10			10	9	10	9
24 (±5%)	16			10			10			10	9	10	9

■ EXTERNAL RESISTOR Switches are normally fitted with internal resistors to operate 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

				Mono-Color						Dual-Color							Super, Mono		Super, Split
ITEM		DC5V			DC12V,24V			DC5V			DC12V,24V			DC5V,12V,24V			DC5V	DC12V,24V	DC5V,12V,24V
		R	G	Υ	R	G	Υ	R	G	Υ	R	G	Υ	R	G	Υ	S.Blue , S.Green	S.Blue , S.Green	S.Blue , S.Green
Max. operating	current Iғм (mA)	50	40	50	25	20	25	50	40	50	25	20	25	25	20	25	40	20	20
DC reverse vo	oltage VR (V)	10	10	10	20	20	20	10	10	10	20	20	20	10	10	10	5	10	5
Forward volta	ge VF (V)	3.8	4.2	3.8	7.6	8.4	7.6	3.8	4.2	3.8	7.6	8.4	7.6	3.8	4.2	3.8	3.4	6.8	3.4
Recommended ope	Recommended operating current IF (mA) 32 32 32		32	16	16	16	32	32	32	16	16	16	16	16	16	26	13	13	
Current Redu (Over 25 °C wor	ced Factor king temperature)	ture) 0.66mA/°C			0.0	33m A /°	C	0.66mA/°C					°C	0.5mA/°C	0.25mA/°C	0.25mA/°C			
Pulse Width PW (μS)					100										100				
Pulse Lighting		10 ⁻¹																	
	IFM (mA)	90								90		90				100	100		
Diag	gram	D1 D2					D1 D2				D2			D1		D2			





The value of the series resistor for other voltage use can be determined by the formula (Switch should be without resistor type):

Vcc : Supply Voltage VF : Forward Voltage IF : Forward Current

Tolerance : \pm 0.4mm



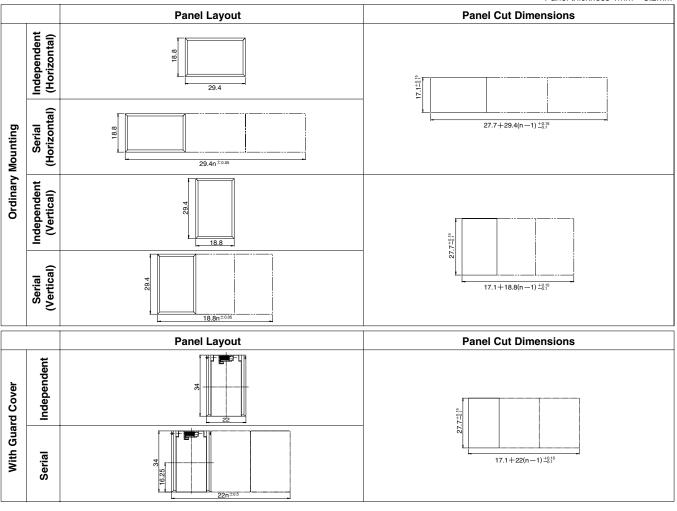




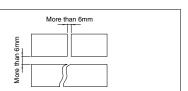


PANEL LAYOUT / PANEL CUT DIMENSIONS

Panel thickness 1mm~3.2mm



In case of block mounting, leave space between arrays as a figure :



ACCESSORIES

Guard Cover



Guard Cover prevents inadvertent and unintentional operations.

※ The cover opens 180°C and returns by spring.

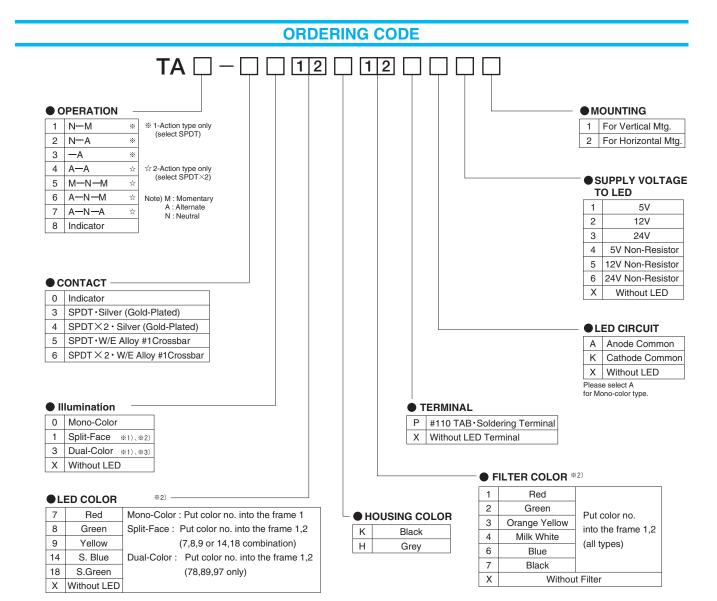
Part No								
Black	TA-3305-K							
Grey	TA-3305-H							











- 1) Simultaneous Lighting of Split-Face and Dual-Color is available for all types.
- 2) LED and Filter Color location should be specified as follow:



- 3) In case of Dual-Color type, Filter color should be "Milk White".
- 4) Snap-spring metal plates come out Left/Right direction for Vertical Mounting, and Top/Bottom direction for Horizontal Mounting to avoid interferring mutually. Therefore, in case of independent use, it does not matter. (select 2 Horizontal ordinary)