

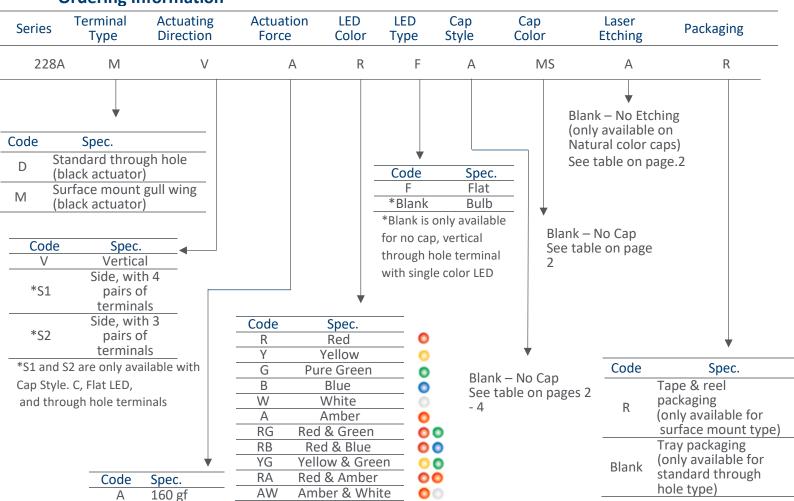
Series 228A

7.2 x 6.8mm Illuminated Tactile Switch

- Surface mount gull-wing terminal and standard through hole configurations
- Compatible with IR reflow, and manual soldering
- Single color display during illumination
- Variety of LED color options
- Variety of cap styles, colors, and laser etching options



Ordering Information



Note: Caps supplied in bulk for surface mount terminal constructions and must be installed after IR reflow soldering.





Cap Style

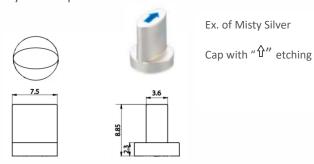
Code	Spec.
	Elliptical
Α	column on
	round
	45° Elliptical
В	column on
	round
C	Cylinder on
C	3/4 circle

Cap Color

Code	Cap Color
MS	Misty Silver
W	White
BB	Bright Black
R	Red
MB	Misty Black
Α	Orange
N	Natural

Cap Style Details

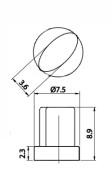
Style A: Elliptical column on round

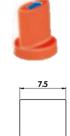


Cap Etching

Code	Style
Α	<u></u>
В	0
С	仓
D	OK
Е	•

Style B: Elliptical column on round

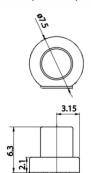




Ex. of Orange

Cap with " $\updays^{\prime\prime}$ " etching







Ex. of Misty Silver

Cap with "O" etching







Tactile Switch

Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	100		megohms
Dielectric Strength	1 minute between adjacent switches		250	VAC
Nonswitching Rating			50	mA
Nonswitching Rating			or	or
			12	VDC

Mechanical and Environmental

Soldering	Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds	
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU and 2015/863/EU	
Operating Force	160gf	
Actuation Life	100,000 cycles	
Actuator Strength	2 Kgf maximum	
Travel	0.25±0.1mm	
Packaging	Standard tape and reel packaging for surface mount gull wing terminal Tray packaging for standard though hole	
Operating Temperature Range	-25°C to +70°C	
Storage Temperature Range	-30°C to +80°C	



Mechanical Specifications

Figure 1 – 228ADV..., Standard Though Hole, Vertical Actuation

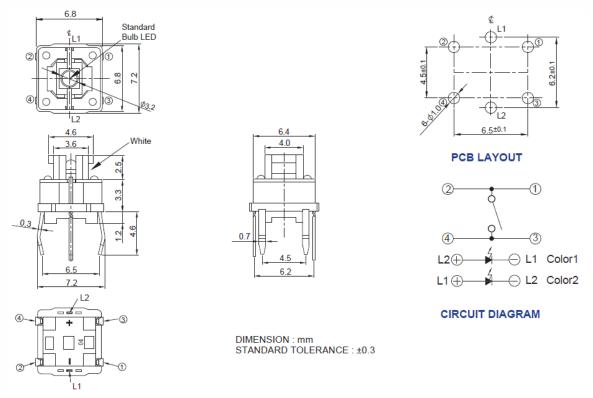
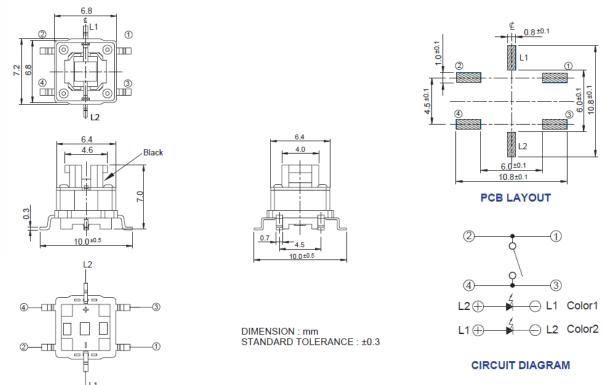


Figure 2 – 228AMV..., Surface Mount Gull Wing, Vertical Actuation



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Figure 3 – 228ADS1..., Standard Though Hole, Side Actuation, 4 Pairs Terminals

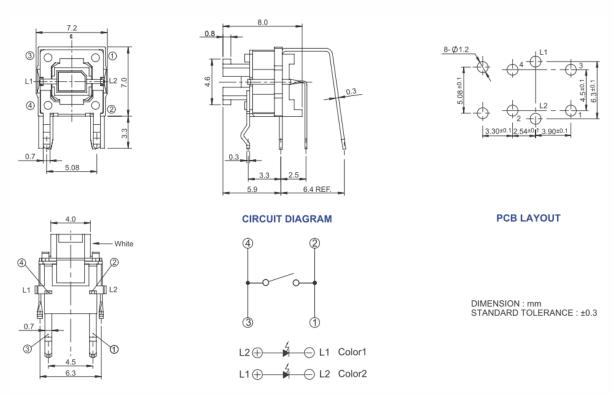
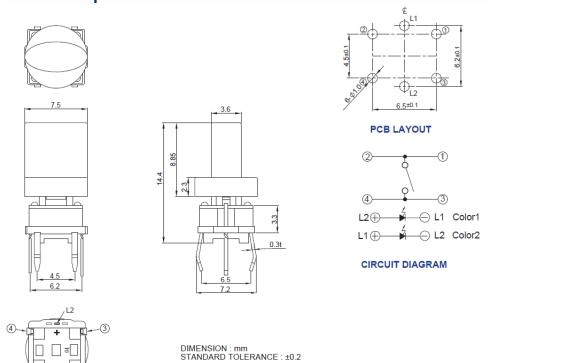


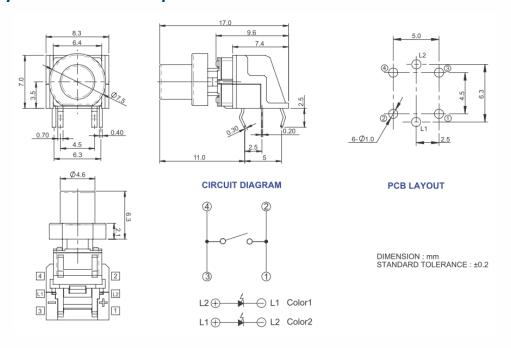
Figure 4 – 228ADVA...A..., Standard Though Hole, Vertical Actuation, Elliptical Column on Round Cap in Natural Color



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Figure 5 – 228ADS2...C..., Standard Though Hole, Side Actuation with 3 Pairs Terminals, & Cylinder on Round Cap

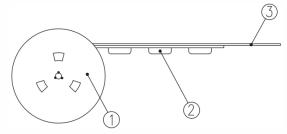


Packing: Tape and Reel

Surface Mount Gull Wing, Actuator Height 7.0mm

The packing specifications:

1. Structure and materials:



No	PART NAME	MATERIAL
① REEL		POLYSTYRENE
2	CARRIER TAPE	POLYSTYRENE
3	COVER TAPE	POLYESTER

- 2. Packing quantity: 450 pcs/reel
- 3. More than 15 empty pockets should remain at each end of the carrier tape for each reel.
- 4. Shortage of less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- 5. Stripping strength of cover tape is between 10 gf to 130 gf and stripping angle should be within 165° 180°.
- 6. The product in the pocket of carrier tape should be placed in a specified correct position.
- 7. Tape and reel per EIA-481.
- 8. Dimensions:





