

RoHS Compliant



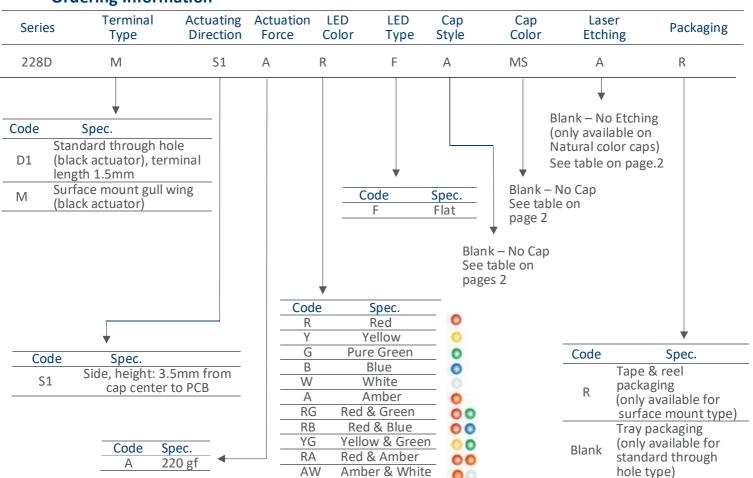
Series 228D

6.8 x 5.0mm 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.

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Cap Style

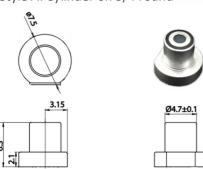
Code	Spec.
Α	Cylinder on 3/4 circle

Cap Color

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

Cap Style Details

Style A: Cylinder on 3/4 round



Cap Etching

Code	Style
Α	<u></u>
В	0
С	•

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 Nathig			or	or
			12	VDC

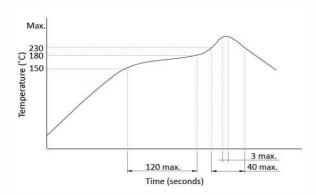
Mechanical and Environmental

oldering 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	220±50 gf
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





Soldering Profile

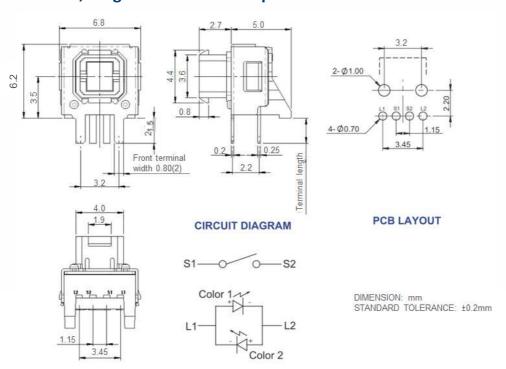


LED Specifications

Color	Reversed Voltage	Forward Current	Recommended Operating	Forward Voltage	
			Current	Nor	Max
Red	5 Vdc	20 mA	20 mA	1.7V	2.4V
Green	5 Vdc	20 mA	20 mA	1.9V	2.4V
Yellow	5 Vdc	20 mA	20 mA	1.9V	2.4V
Blue	5 Vdc	20 mA	20 mA	3.0V	3.6V
White	5 Vdc	20 mA	20 mA	3.0V	3.6V

Mechanical Specifications

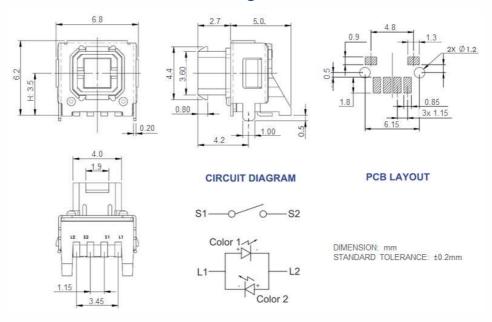
Figure 1 – 228DD1S1..., Standard Though Hole, Terminal Length 2.1mm, Side Actuation, Height: 3.5mm from cap center to PCB



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Figure 2 – 228DMS, Surface Mount Gull Wing, Vertical Actuation

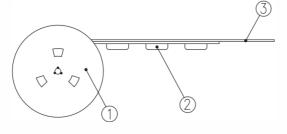


Packing: Tape and Reel

Surface Mount Gull Wing, Actuator Height 7.0mm

The packing specifications:

1. Structure and materials:



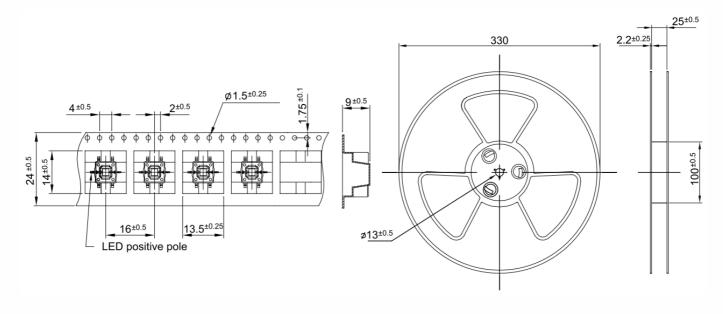
No	PART NAME	MATERIAL
1	REEL	POLYSTYRENE
2	CARRIER TAPE	POLYSTYRENE
3	COVER TAPE	POLYESTER

- 2. Packing quantity: 500 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:



Series 228D

Tactile Switch



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