



Agenda

- Product Overview by Model
- Key Specifications
- Features & Benefits
- Target Applications
- Value Proposition
- Available Sales Collateral



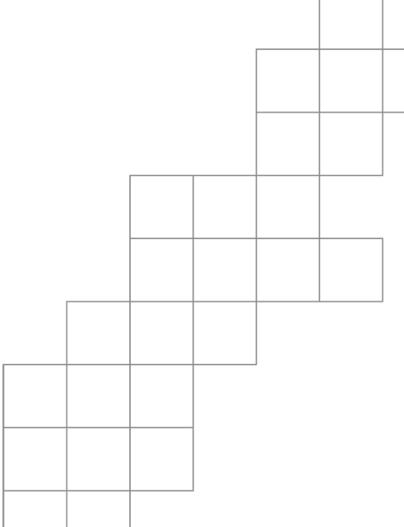






Photo	Series	Dimension	Mounting Style	Key Specifications	
	228A	6.8 x 7.2 x 4.5mm 7.2 x 7.0 x 4.5mm	O	Life: 100,000 cycles Actuator Travel: 0.25 mm Actuation Force: 160 gf Operating Temp: -25° to 70°C	
Optional Caps	Std.:			Custom:	
Features/ Benefits	 SMT & TH mounting options Single & bi-LED options Variety of LED color options Variety of cap options Laser marking options Customized caps are available 		Applications	 Audio Visual Equipment Consumer/IT Electronics Telecommunication Devices Instrumentation Equipment Medical Devices 	





Photo	Series	Dimension	Mounting Style	Key Specifications
	228B	6.0 x 6.6 x 4.8mm	SMT Gull-Wing Std Through Hole	Life: 100,000 cycles Actuator Travel: 0.25 mm Actuation Force: 160 gf Operating Temp: -20° to 70°C
Optional Caps	Std.:			
Features/ Benefits	 Terminal spacing compatible with DIP IC pitch Single & bi-LED options Variety of LED color options Variety of std caps available Etching options available Custom caps are available 		Applications	 Audio Visual Equipment Consumer/IT Electronics Telecommunication Devices Instrumentation Equipment Medical Devices





Photo	Series	Dimension	Mounting Style	Key Specifications
	228C	6.8 x 7.2 x 4.5mm 7.2 x 7.0 x 4.5mm	SMT Gull-Wing Std Through Hole	Life: 100,000 cycles Actuator Travel: 0.25 mm Actuation Force: 160 gf Operating Temp: -20° to 70°C
Optional Caps	Standard			
Features/ Benefits	 SMT & TH mounting options Single, bi and tri-LED options Variety of LED color options Variety of cap options Laser marking options Custom caps are available 		Applications	 Audio Visual Equipment Consumer/IT Electronics Telecommunication Devices Instrumentation Equipment Medical Devices Gaming Keyboard





Photo	Series	Dimension	Mounting Style	Key Specifications
	228D	6.8 x 5.0 x 6.2mm	SMT Gull-Wing Std Through Hole	Life: 100,000 cycles Actuator Travel: 0.25 mm Actuation Force: 220 gf Operating Temp: -25° to 70°C
Optional Caps	Std.:	Customiz	zed:	
Features/ Benefits	 SMT & TH mounting options Single & bi-LED options Variety of LED color options Variety of cap options Etching options available Custom caps are available 		Applications	 Audio Visual Equipment Consumer/IT Electronics Telecommunication Devices Instrumentation Equipment Medical Devices





Photo	Series	Dimension	Mounting Style	Key Specifications
	228E	6.8 x 7.2 x 3.6mm 7.4 x 7.9 x 4.7mm	SMT Gull-Wing SMT J-Bend Std Through Hole	Life: 100,000 cycles Actuator Travel: 0.7 mm Actuation Force: 200 gf Operating Temp: -40° to 85°C Seal Rating: IP67
Features/ Benefits	 Sealed for immersion SMT & TH mounting options Single, bi and tri-LED options Variety of LED color options 		Applications	 Audio Visual Equipment Consumer/IT Electronics Telecommunication Devices Instrumentation Equipment Medical Devices





Series 228 Product Target Market Segments/Applications



Industrial

- Oscilloscopes
- Function Generators
- •Information technology equipment
- •PCs & Laptops
- Printers







Medical

- Ultrasound equipment
- •Medical laser equipment
- Patient vitals monitor
- Medical alert system
- •Non-invasive ventilator

Audio & Gaming

- $\bullet \, Keyboards$
- Midi controllers
- •DJ mixers
- Digital video/switching processor
- $\bullet {\sf Gaming\ keyboards}$



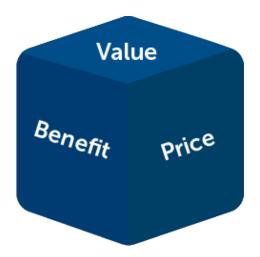




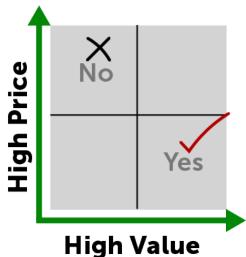




Series 228 Product Value Proposition



The Series 228 product line provides a variety of illuminated tact switch solutions in a variety of mounting configurations with various optional switch caps to meet engineering design needs offered at a competitive price.

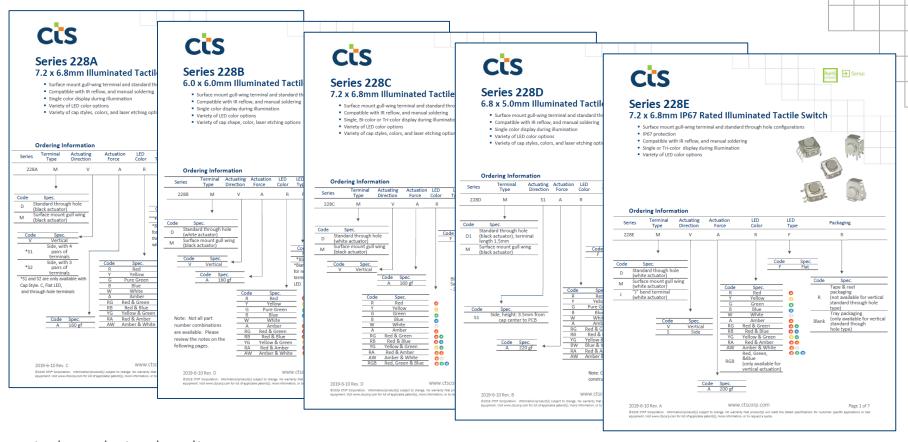


- Long life of 100,000 cycles is standard for all 228 models.
- Model 228E provides a standard IP67 seal for those applications that are subject to continuous humid environments.
- Standard and custom cap options available on request.
- Custom marking is available on request.
- As a pioneer of modern DIP switch technology, CTS strives to provide reliable switch solution products for industrial, consumer and medical applications, and is continuing to expand the switch portfolio with the release of the Series 228 product line.





Series 285 Product Collateral



Switch website landing page

https://www.ctscorp.com/sense product line/tactile-switches/

Switch brochure

https://www.ctscorp.com/wp-content/uploads/2017.02.02-Switches-Brochure-Web.pdf





Series 228 Product Availability









Global Distributors



Regional Distributors



- Inventory is readily available at e-Catalog distributors worldwide
- A comprehensive network of established global supply chain distributors are ready to assist
- World-class local language customer support is available to help with designs and production





Thank you



