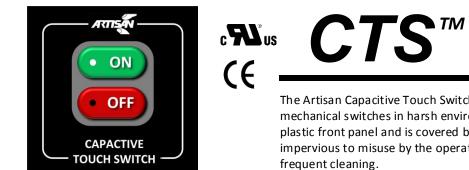


# **Artisan Controls Corporation** Solid State Timers and Controllers Since 1965



The Artisan Capacitive Touch Switch is a unique solution for replacing electromechanical switches in harsh environments, it is mounted behind a metal or plastic front panel and is covered by a protective overlay, thus making it virtually impervious to misuse by the operator and contamination by the environment or frequent cleaning.

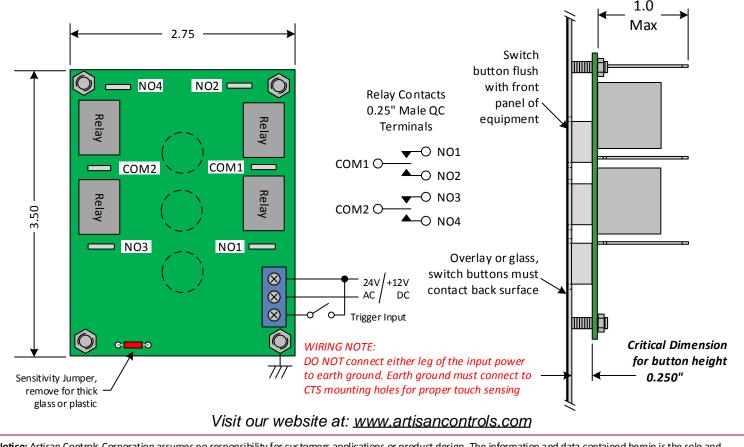
Capacitive

**Touch Switch** 

The CTS<sup>™</sup> provides up to four high power output relays and three capacitive sensing buttons so it can provide reliable switching operation for any application ranging from a single pole normally open pushbutton up to a double pole double throw toggle switch. The switching action is fully programmable by the factory and can be configured for any application including those that standard electro-mechanical switches cannot perform.

<u>CAPACITIVE TOUCH TECHNOLOGY</u>: The CTS<sup>™</sup> uses the capacitive coupling of the human body to earth ground and can be sensed through up to 10mm of plastic or glass. The only requirement is good mechanical contact to the front face of the conductive sensing button. *No moving parts to wear out so it is highly reliable and is impervious to cleaning, any residue left from improper cleaning, hot cooking oils, or food product spillage. This technology will respond to human touch even through thick gloves.* 

<u>OPERATION</u>: When power is applied to a CTS<sup>M</sup> switch the center LED will flash five times to indicate that it is initializing, when the LED stops flashing the switch is ready to operate. Touching any of the installed buttons will cause the corresponding LED to flash at a high rate to show that the touch has been sensed. There is a standard delay of 250mS between touching the switch and the change of the output relay(s).



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#### Ordering Information .....

Model	-Poles -Buttons		-Function -Volts	
СТЅ	-1A -1C -2A -2C	-YYY Y=1 or 0 3 buttons = 111, etc	-(code)	blank = 24VAC/DC -12 = 12V DC

#### Pole Codes:

- 1A = Single pole normally open (SPNO)
- 1C = Single pole double throw (SPDT)
- 2A = Double pole normally open (DPNO)
- 2C = Double pole double throw (DPDT)

## Sample Applications .....

#### TOGGLE SWITCH:

The graphic to the right shows an example used on a commercial fryer which requires a DPDT maintained toggle switch with a center off position to enable the users to fry food, filter the oil, or turn the system off. This application uses all three touch buttons and double pole double throw outputs. The function code for a maintained switch with center off is NFN (maintaiNed oFf maintaiNed). All three buttons are used so the buttons code is 111. The part number required here is: **CTS-2C-111-NFN** 

### MAIN POWER SWITCH:

Another common application is the main power switch for a piece of equipment, for which we want the user to touch it once to be on and touch it again to be off. This type of function is called **ALT**ernating, the system only needs to switch one line so one pole and one switch is all that is required, the customer wants only the center button to be installed. That part number would be: **CTS-1A-010-ALT** 

An advanced version of this application would be where you want the user to touch *and maintain their touch for 2 seconds* before changing from off to on or on to off, that would be to ensure that cleaning or mistaken touches do not change the state of the machine. That function is **T**ime **D**elay **A**lternating so that function code would be TDA followed by the time delay which would be 02. This part number: **CTS-1A-010-TDA02** 

### UP / DOWN SWITCH:

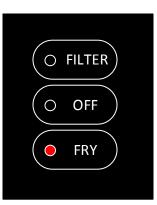
Our last application is for controlling up and down motion, where a momentary touch to start in the desired direction is all that is needed as the rest of the system takes care of stopping the action once it starts. This requires a single pole double throw output and two switch buttons. The function code for this would be **M**omentary **M**omentary, so the full part number would be: **CTS-1C-110-MM**.

#### CUSTOM FUNCTIONS:

As the above examples show, Artisan can create any type of function including switching logic and timing for your application. All you need to do is provide us with a description of your application and we can make a switch that will do all the functions of your panel switch and more. The Trigger Input can be used for limit detection, thermostatic control, or standard single-shot or delay on break timing. We can also manufacture the CTS<sup>™</sup> to operate on 12VDC, add a -12 to the part number

### Visit our website at: www.artisancontrols.com

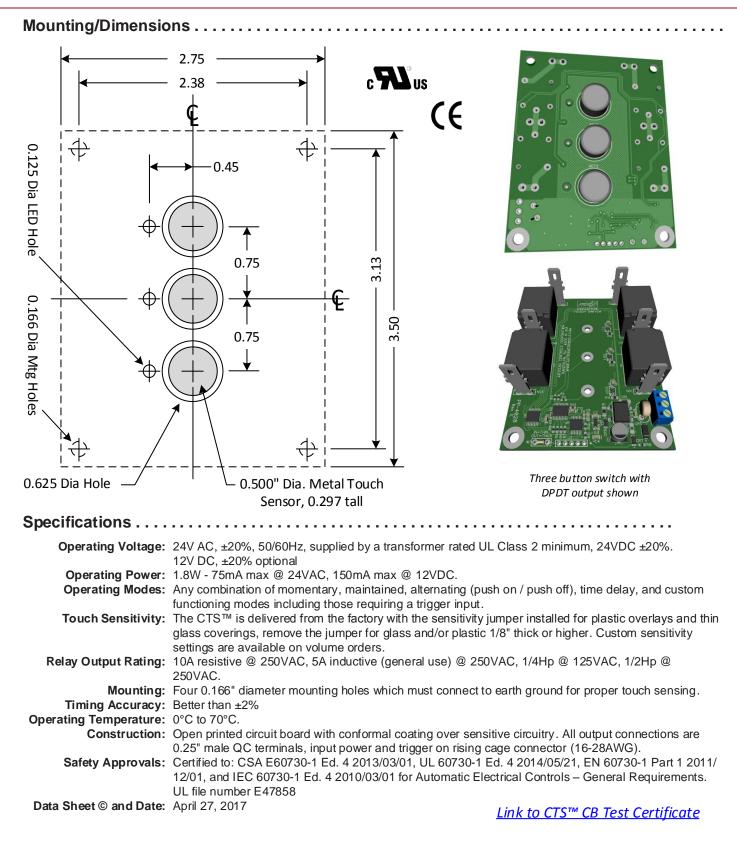
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