



## 500C/CW Series Door Switch

### General Description

The GE Series 500C Door Switch is a plunger-push type door switch from GE. The easy-to-install switches feature front snap-in mounting for panels 1/32" to 1/8" thick, and can easily be installed or replaced from the front of the appliance. The GE Series 500C is available in the following circuit configurations: SPST NC, SPST NO, SPDT, 2-line 2-circuit & 3 point-NO plus SP-NC. The above switch is also sold in model Series 500CW to provide moisture resistance for laundry and refrigeration applications.

### Typical Applications

- Residential Refrigeration
- Commercial Refrigeration
- Laundry Washer and Dryer
- Freezers
- Ranges/Ovens
- Microwave Ovens

### Technical Data

#### Terminals

Normally Closed or Normally Open Contacts

.110" x .031" Quick Connect [2.8 x 0.8mm]  
.187" x .031" Quick Connect [4.8 x 0.8mm]  
.250" x .031" Quick Connect [6.4 x 0.8mm] NC only

#### Electrical Ratings

- 125VAC (Inductive) - 1 Ampere
- 125VAC (Tungsten) - 1-1/2 Amperes
- 250VAC (Inductive) - 4 Amperes
- 1/3HP @ 125-250VAC
- 12V DC - 4 Amperes

#### Agency Listings

Underwriters Laboratories, Inc.  
Recognized under UL File E2010, Guide WYOR2  
Series 500CW switches meet the requirements of UL250, Component Washing Test.

Canadian Standards Association  
Certified under CSA File 7136, Guide 380W 19.4

#### Panel Cut-Out

- Panel Thickness: .031" [0.8mm] to .125" [3.2mm]
- Cut-out size: .750" [19.1mm] Dia. hole

### Characteristics



- Endurance: up to 100,000 operations
- Operating force: various force available
- Temperature limits for various configurations:
  - 392°F (200°C)
  - 302°F (150°C)
  - 275°F (135°C)
  - 170°F (76°C)

### Features

#### Body/Actuator Color

Standard body/actuator color available in:

- White
- Black

\*Additionally, dark gray body color for high temperature 392°F (200°C) applications.

#### Actuator Style

Standard actuator style:

- Shown in above picture

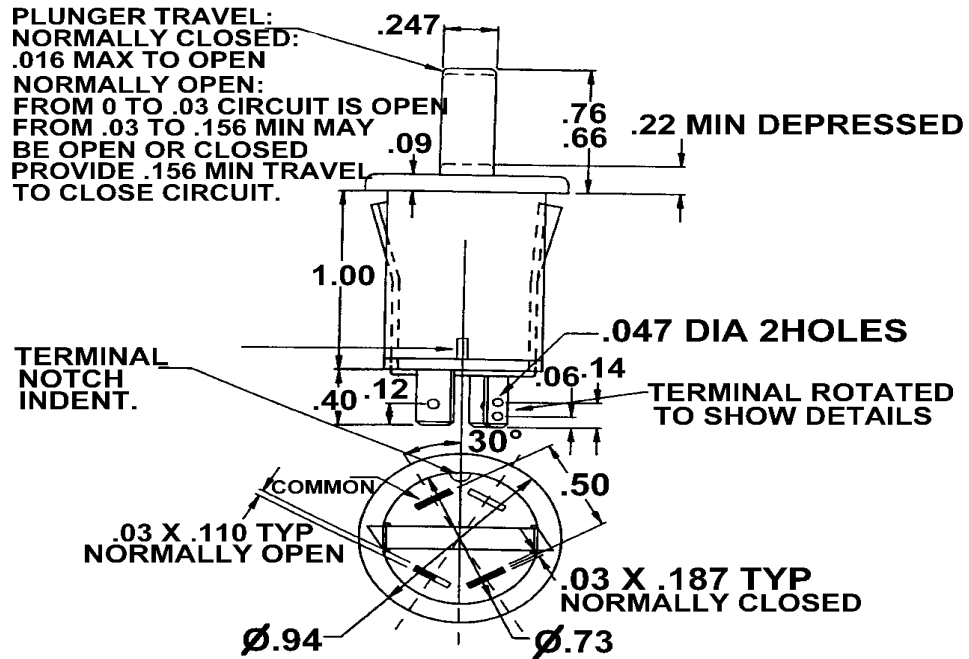
\*Modified actuator styling is available with tooling.

### Materials

- Switch Body Phenolic, Urea or Diallyl Phthalate
- Actuator Valox, Ryton Nylon
- Backplate Phenolic, Ryton
- NO/NC terminals Copper alloy with silver plating option
- Bracket/Spring Steel

**PLUNGER TRAVEL:**  
**NORMALLY CLOSED:**  
 .016 MAX TO OPEN  
**NORMALLY OPEN:**  
 FROM 0 TO .03 CIRCUIT IS OPEN  
 FROM .03 TO .156 MIN MAY  
 BE OPEN OR CLOSED  
 PROVIDE .156 MIN TRAVEL  
 TO CLOSE CIRCUIT.

Technical drawing of a plunger assembly. The drawing shows a cross-section of the plunger with various dimensions and labels. The plunger has a top section with a diameter of .247 and a lower section with a diameter of .09. The total height of the plunger is .76. The distance from the top of the plunger to the top of the lower section is .66. The distance from the top of the lower section to the bottom of the plunger is .22 MIN DEPRESSED. The drawing also includes a label 'PLUNGER TRAVEL: NORMALLY CLOSED: .016 MAX TO OPEN NORMALLY OPEN: FROM 0 TO .03 CIRCUIT IS OPEN FROM .03 TO .156 MIN MAY BE OPEN OR CLOSED PROVIDE .156 MIN TRAVEL TO CLOSE CIRCUIT.'



**ONLY TOLERANCED DIMENSIONS  
ARE SUBJECT TO INSPECTION.  
OTHERS ARE REF. DIMENSIONS  
FOR TYPE APPROVAL.**