

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, 4PDT PLUNGER,  
4 AMPERES, HERMETICALLY SEALED CONTACTS, RESILIENT SEALED PLUNGER

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the pressure switches described herein shall consist of this document and the latest issue of Specification MIL-PRF-8805.

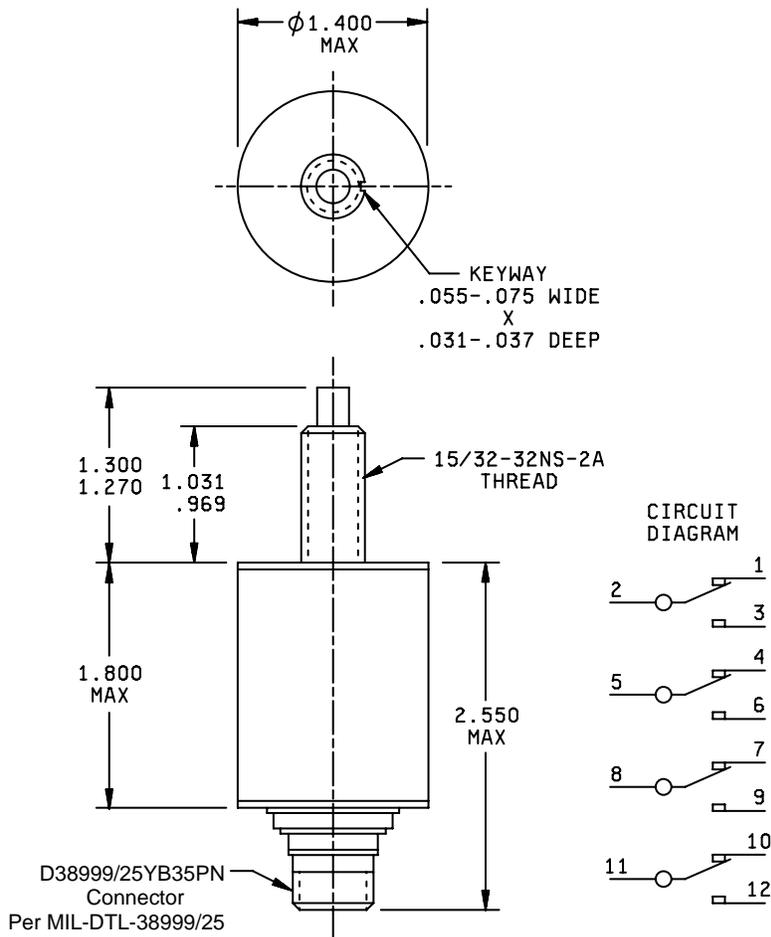


FIGURE 1. DIMENSIONS AND CONFIGURATION

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 5 (hermetic). Basic switch shall be hermetically sealed M8805/68-022 listed on QPL - 8805. Resilient plunger seal.

Temperature characteristic: 2 (- 65°C to + 125°C).

Shock type: M (100 g, test condition I, method 213 of MIL-STD-202).

Vibration grade: 3 (10 Hz to 3,000 Hz swept sinusoidal ).

Weight: 5.1 ounces

Operating characteristics:

Actuating force: 10 pounds maximum.

Releasing force: 1 pound minimum.

Movement differential: .020 inch (0.51 mm) maximum.

Pretravel: .030 inch (0.76 mm) maximum

Overtravel: .200 inch (5.08 mm) minimum.

Contact resistance: .04 ohm

Dielectric withstanding voltage:

Sea level and 70,000 feet: 1,050 Vrms (terminal to case), 800 Vrms (terminal to terminal).

Seal test: Not required.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Intermediate current: 25,000 cycles.

Low level: 25,000 cycles.

Electrical ratings: see table I.

Short circuit: 20 times rated resistive load (SAE-AS33201-7 or equivalent, used for circuit protection).

Qualification: Qualification inspection table of MIL-PRF-8805, groups I through IV inclusive (seal test not required).

Military Part or Identifying Number (PIN): M8805/116.

TABLE I. Electrical ratings.

LOAD	Sea level and 70,000 feet
	28 VDC
Resistive	4
Inductive	1
Lamp	2

## Referenced Documents:

MIL-PRF-8805  
MIL-STD-202  
MIL-DTL-38999/25

## Custodians:

Army – CR  
Navy – EC  
Air Force – 11  
DLA – CC

## Preparing activity:

DLA – CC

(Project 5930-2007-058)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil/> .