# Grayhill

## **SERIES 39 Miniature Limit**

# **FEATURES**



Plunger Sealed Version

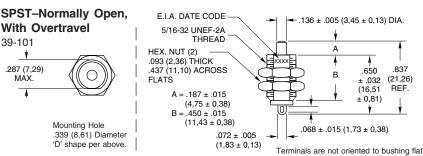
**DIMENSIONS** In Inches (and millimeters)





Rating at Rating at Operations





115 Vac Resistive	220 Vac Resistive	at Rated Load		Number	Color
¹/2 Amp	1/4 Amp	500,000		39-101	Nat. Nylon
Action	Total		_	ver	Actuating
71011011	Travel		Tra	avel	Force (oz.)

#### SPST-Normally Open, SPST-Normally Open, With Overtravel, Sealed Actuator With Extended Overtravel 39-102 39-701 39-103 110 ± .005 $(2,79 \pm 0,13)$ DIA. FIA DATE E.I.A. DATE CODE CODE 5/16-32 5/16-32 UNEF-2A UNEF-2A THREAD 1.050 THREAD .800 (26,67)В ±.032 $A = .187 \pm .015$ REF. $A = .250 \pm .015$ (20.32 $(4.75 \pm 0.38)$ $(6,35 \pm 0,38)$ ± 0,81) $B = .600 \pm .015$ $B = .600 \pm .015$ $(15.24 \pm 0.38)$ $(15.24 \pm 0.38)$ .072 ± .005 $.068 \pm .015 (1.73 \pm 0.38)$ .072 ± .005 $(1.83 \pm 0.13)$ $(1,83 \pm 0,13)$ Mounting Nuts per above. E.I.A. DATE CODE ←.110 ± .005 (2,79 ± 0,13) DIA. SPST-Normally Closed, 5/16-32 UNS-2A **Sealed Actuator THREAD** A = .165 +.035 -.015 39-702 (4,19 + 0,89 - 0,38) $B = .410 \pm .015$ $(10,41 \pm 0,38)$ Mounting Nuts per above. .100 (2,54) MAX. .020 (0,51) REF.- $.100 \pm .005 (2,54 \pm 0,13)$ .040 (1,02) REF.

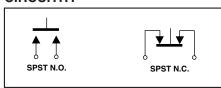
Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
150 mA	75 mA	30,000	39-102	Nat. Nylon
150 mA	75 mA	100,000	39-701	Nat. Nylon
1/2 Amp	¹/₄ Amp	30,000	39-103	Nat. Nylon

Action	Total Travel	Over Travel	Actuating Force (oz.)
Momentary	.250 ± .015 (6,35 ± 0,38)	39-102 and 39-103: .200 (5,08) Nominal. from top of bushing	6.8 ± 5
Momentary	.187 ± .015 (4,75 ± 0,38)	39-701: .060 (1,52) Min. from top of bushing	8 ± 4

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive		perations It Rated Load	Part Number	Button Color
¹/4 Amp	1/8 Amp	1	00,000	39-702	Nat. Nylon
	Total		0	/er	Actuating

Action	Total Travel	Over Travel	Actuating Force (oz.)
Momentary	.042 ± .010 (1,07 ± 0,25)	None	8 ± 4

### **CIRCUITRY**



#### **SPECIFICATIONS**

**Rating Criteria** 

Contact Resistance: 25 milliohms maximum

on a new switch

Voltage Breakdown: 1,000 Vac between

mutually insulated parts

Insulation Resistance: 1,000 megohms

minimum

Operating Temperature: -40°C to +85°C

#### **Materials and Finishes**

Bushing and Mounting Nuts: Brass, tin zinc Insulation Sleeve: Molded polyester for 39-101, 39-102, 39-103 and 39-701: phenolic per MIL-M-14 type CFG for 39-702

 $.060 \pm .005 (1.52 \pm 0.13)$ 

.110 ± .005

Α

 $(2,79 \pm 0,13)$  DIA.

.800

±.032

(20.32

 $\pm 0.81$ )

.068 ± .015 (1,73 ± 0,38)

.775

REF

.610

(15,5

 $\pm 0.81$ )

± .032 (19,69)

.987

(25,07)

RÉF

Base: Thermoset plastic

Terminals: Commercial bronze, gold plated over nickel for 39-101, 39-102, 39-103 and 39-701; silver for 39-702

Springs: Tinned music wire

Contacts: Commercial bronze, gold-plated for 39-101, 39-102, 39-103 and 39-701; fine silver

for 39-702

**Button:** Thermoplastic

O-Ring: (39-701 & 39-702) Silicone

### STANDARD OPTIONS

Optional plating: gold-plated contacts for dry circuit conditions, contact Grayhill.

#### ORDERING INFORMATION

Part No.	Description
39-101	SPST, N.O. With Overtravel
39-102	SPST, N.O. With Extended Overtravel
39-103	SPST, N.O. With Extended Overtravel
39-701	SPST, N.O. With Overtravel, Sealed
39-702	SPST, N.C. Sealed

Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.