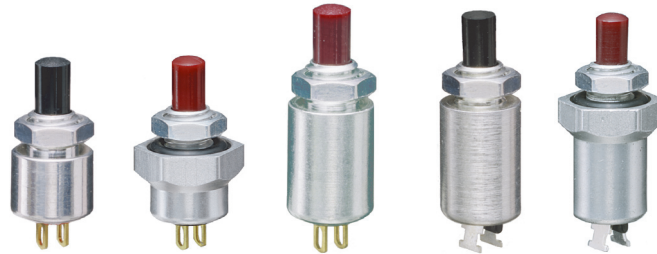


SERIES 39
SPST, 150 mA to 1/2 Amp

FEATURES

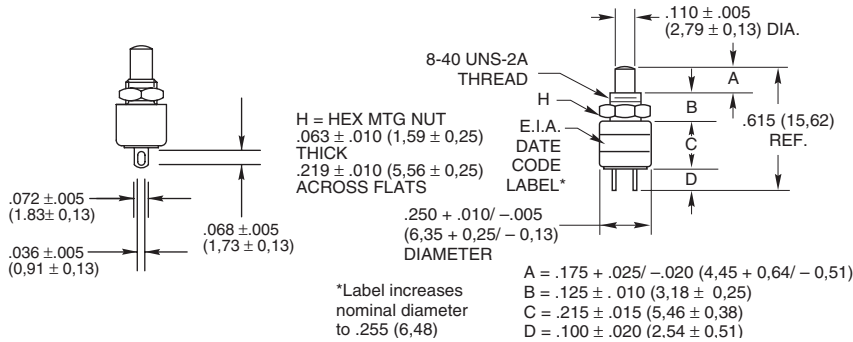
- Requires an Absolute Minimum of Space
- Molded-In Terminals in SPST-N.O.
- Solder Lug Terminals



DIMENSIONS in inches (and millimeters)

Normally Open-SPST Economy and Standard Version

39-1
39-3
39-601*



Economy Version

Electrical Ratings	Operations at Rated Load	*Complete Part Number	Button Color
At 5 Vdc 150 mA	At 20 Vdc 20 mA	1,000,000	39-601 RED 39-601 BLK

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.035 ± .015 (0,89 ± 0,38)	4 + 4 - 2	11/64" (4,37) DIA.

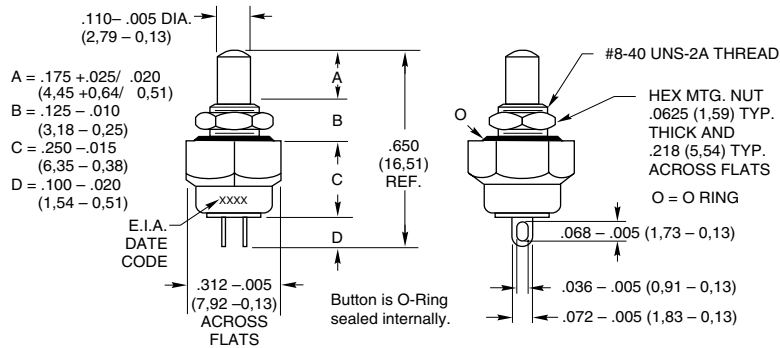
Standard

Electrical Ratings	Operations at Rated Load	Complete Part Number	Button Color
At 115 Vac 1/2 Amp Res.	At 220 Vac 1/4 Amp Res.	1,000,000	39-1 39-3

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.035 ± .015 (0,89 ± 0,38)	4 + 4 - 2	11/64" (4,37) DIA.

Normally Open-SPST with Sealed Bushing and Button

39-351*

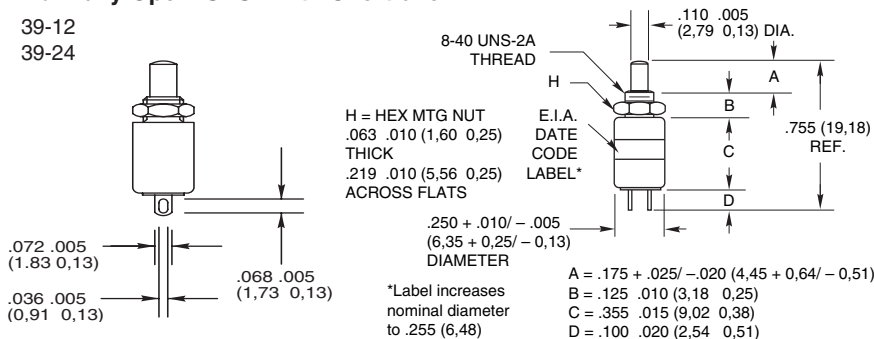


Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1/2 Amp	1/4 Amp	250,000	39-351 RED 39-351 BLK	Red Black

Action	Total Travel	Actuating Force (oz.)
Momentary	.035 ± .015 (0,89 ± 0,38)	16 ± 8

Normally Open-SPST with Overtravel

39-12
39-24



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Complete Part Number	Button Color
1/2 Amp	1/4 Amp	100,000	39-12 39-24	Red Black

Action	Total Travel	Over Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.130 ± .025 (3,30 ± 0,64)	.015 (0,38) Min.	5 ± 3	11/64" (4,37) DIA.

Pushbutton Switches

DIMENSIONS in inches (and millimeters)

Normally Closed-SPST

39-2

H = HEX MTG NUT
.063 - .010 (1,60 - 0,25)
THICK
.219 - .010 (5,56 - 0,25)
ACROSS FLATS

8-40 UNS-2A
THREAD

E.I.A. DATE
CODE
LABEL*

A = .175 - .025 (4,45 - 0,64)
B = .125 - .010 (3,18 - 0,25)
C = .390 - .010 (9,91 - 0,25)
D = .100 (2,54) MAX.

.105 - .005
(2,67 - 0,13) DIA.

.780 (19,81)
REF.

.100 ± .010
(2,54 ± 0,25)

.250 + .010 / .005
(6,35 + 0,25 / 0,13)
DIAMETER

*Label increases nominal diameter to .255 (6,48)

.060 ± .010
(1,52 ± 0,25)

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Cap Color
1/4 Amp	1/8 Amp	250,000	39-2	Black

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.042 ± .010 (1,07 ± 0,25)	4 + 4 - 2	.172 (4,37) DIA.

Normally Closed-SPST with Sealed Bushing and Button

39-352*

A = .165 + .035 / .015
(4,19 + 0,89 / 0,38)

B = .125 - .007
(3,18 - 0,18)

C = .429 - .015
(10,90 - 0,38)

D = .100 (2,54) MAX.

E = 10 TO 40
APPROX.

.110 - .005 DIA.
(2,79 - 0,13)

#8-40 UNS-2A
THREAD

H = HEX MTG. NUT
.0625 (1,59) TYP.
THICK AND
.218 (5,56) TYP.
ACROSS FLATS

O-RING

E.I.A. DATE
CODE
LABEL*

.819
(20,80)
REF.

.250 + .010 / .005
(6,35 + 0,25 / 0,13)

.312 - .005
(7,92 - 0,13)
ACROSS FLATS

Button is o-ring sealed internally.

*Label increases nominal diameter to .255 (6,48)

.100 (2,54) MAX.

.100 - .010 (2,54 - 0,25)

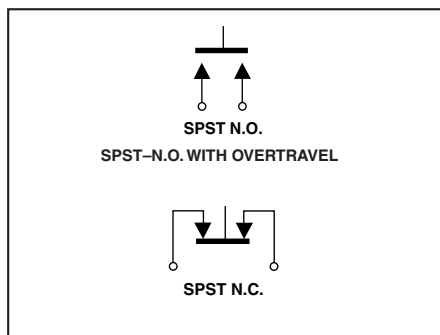
.060 - .010 (1,52 - 0,25)

Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1/4 Amp	1/8 Amp	100,000	39-352 RED 39-352 BLK	Red Black

Action	Total Travel	Actuating Force (oz.)
Momentary	.042 ± .010 (0,17 ± 0,25)	8 ± 4

Pushbutton Switches

CIRCUITRY



Materials and Finishes

Mounting Nut: Brass, tin zinc

Housing: Aluminum, clear anodized for 39-351 and 39-352; Brass, zinc trivalent chromate-plated for others

Button: Thermoset plastic

Base: Thermoset plastic

Shorting Bar: Fine silver for 39-2 and 39-352; brass, gold-plated over nickel plate for 39-601; fine silver, gold-plated for others

Terminals: Fine silver for 39-2 and 39-352; commercial bronze with gold-plated fine silver contact surface for others

Spring: Tinned music wire

O-Rings: (39-351 and 39-352) Internal ring is silicone; external ring is buna 'N'

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

Mounting Torque: 2 inch-pounds

ACCESSORY

Button Cap
Part No. 30B1012
For use with part numbers 39-351 and 39-352.
(Fasten to button with Cyanoacrylate Adhesive)

ORDERING INFORMATION

Part Number	Description
39-1	N.O., Red Button
39-2	N.C., Black Button
39-3	N.O., Black Button
39-12	N.O., Overtravel Red Button
39-24	N.O., Overtravel Black Button
39-351 RED	N.O., Sealed, Red Button
39-351 BLK	N.O., Sealed, Black Button
39-352 RED	N.C., Sealed, Red Button
39-352 BLK	N.C., Sealed, Black Button
39-601 RED	N.O., Economy, Red Button
39-601 BLK	N.O., Economy, Black Button

Accessory cap may be used with all switches shown except 39-2.

Accessory Part Number	Description
30B1012-5	Red Button Cap
30B1012-9	Black Button Cap
30B1012-8	White Button Cap

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Pushbutton Switches](#) category:

Click to view products by [Grayhill](#) manufacturer:

Other Similar products are found below :

[8940K2012](#) [LW1L-M1C10V-A](#) [LW1L-M1C70-A](#) [LW2L-A1C20M-GD](#) [LW2L-M1C20M-A](#) [60324L](#) [M22-D-R-GB0/K11](#) [M7E-HRN2](#)
[67021K512](#) [67081K512X](#) [701PB580](#) [7199K101](#) [810K12910](#) [810KSV30B](#) [MML21EA2ADK](#) [MML21KA3ABK](#) [MML23KA3AC05K-001](#)
[MML23KW3AA01W](#) [8418K2](#) [8442K3](#) [8450K1](#) [860K11911T01A](#) [861901](#) [861K11911T01A07](#) [861K13810T00A14](#) [861K13911](#)
[8646AB6X718UL](#) [8646ABUL](#) [9001KXRK](#) [907AYY100](#) [PMHD155A1](#) [9533CD4+U574+U4922](#) [95-414.000](#) [99-450.837](#) [99-453.837](#)
[PV3H2B0NN-341](#) [1203MRA](#) [A22NZBGANGA](#) [A22NZBNANGA](#) [A22NZMPATRA](#) [A2PMA1X03EC56](#) [A3A-5123-02](#) [A3A-7140](#) [A3A-7310](#) [A3A-7340](#) [A3U-TMW-A2C-5M](#) [A595](#) [12037A2ULCSA](#) [ABD122N-B](#) [1211390004](#)