

SERIES 30 SPST, 1 and 5 Amp

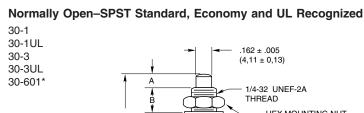


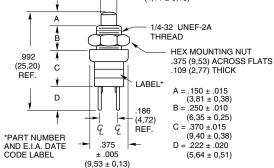
FEATURES

- Reliable
- Economical
- Large Selection
- UL Recognized
- CSA Certified
- Sealed Bushing and Pushbutton Option



DIMENSIONS In Inches (and millimeters)





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	30-601 RED 30-601 BLK	

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.062 ± .010 (1,57 ± 0,25)	10 ± 4	17/64" (6,75)

Standard

	-			
Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
1 Amp	0.5 Amp	1,000,000	30-1 30-3	Red Black

Action	Total Actuating Travel Force (oz.)		Mtg. Hole
Momentary	.062 ± .010 (1,57 ± 0,25)	10 ± 4	17/64" (6,75)

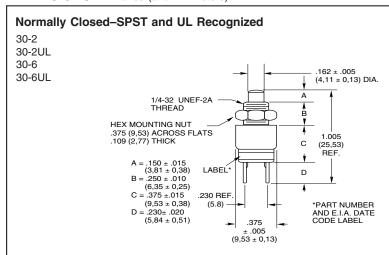
UL Recognized

Rating at 120 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
5 Amp	2.5 Amp	6,000	30-1UL 30-3UL	Red Black

Action	Total Travel	Actuating Mtg Force (oz.) Ho	
Momentary	.062 ± .010 (1.57 ± 0.25)	10 ± 4	17/64" (6,75)



DIMENSIONS In Inches (and millimeters)



Normally Closed-SPST

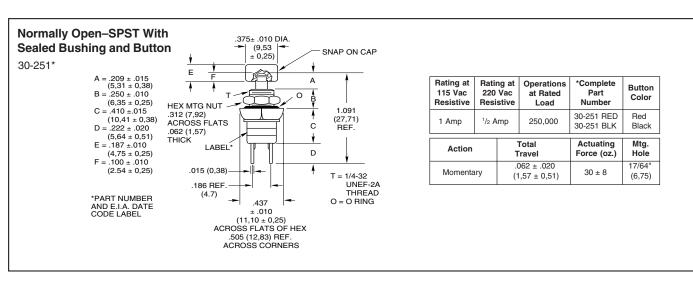
Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
1 Amp	¹/2 Amp	1,000,000	30-2 30-6	Black Red

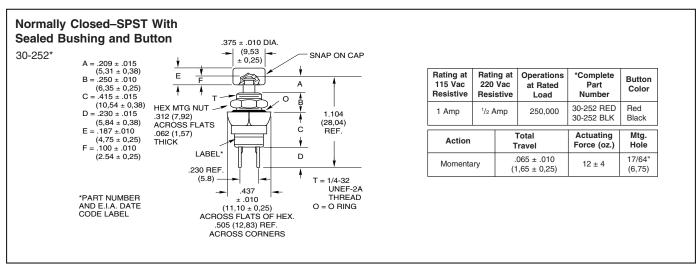
Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary	.065 + .010/015 (1,65 + 0,25/ - 0,38)	8 ± 4	17/64" (6,75)

UL Recognized

Rating at 120 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
5 Amp		6,000	30-2UL 30-6UL	Black Red

Action Total Travel		Actuating Force (oz.)	Mtg. Hole
Momentary	.065 + .010/015 (1,65 + 0,25/ - 0,38)	8 ± 4	17/64" (6,75)



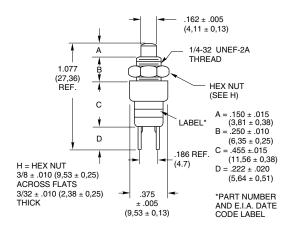




DIMENSIONS In Inches (and millimeters)

Normally Open-SPST With Overtravel

30-15 30-37

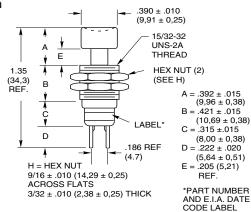


•	Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
	1 Amp	¹/2 Amp	500,000	30-15 30-37	Red Black

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Momentary .020" Overtravel	.125 + .020/010 (3,18 + 0,51/ - 0,25)	8 ± 4	17/64" (6,75)

Normally Open-SPST With Positive Feel

30-17*

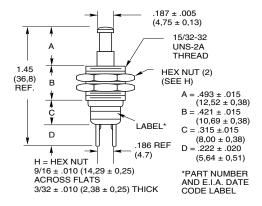


Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1 Amp	¹/2 Amp	200,000	30-17 RED 30-17 BLK	Red Black

	Action	Total Travel	Over Travel	Actuating Force (oz.)	Mtg. Hole
- 1	Momentary Pos. Feel	.156 ± .015 (3,96 ± 0,38)	.046 (1,17) Min.	18 ± 4	31/64" (12,30)

Normally Open-SPST With Push-Pull

30-16*



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	*Complete Part Number	Button Color
1 Amp	¹/2 Amp	100,000	30-16 RED 30-16 BLK	Red Black

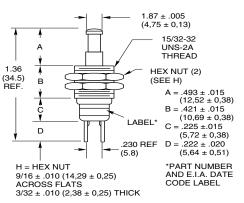
Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Push-to-Make	.145 ± .015 (3,68 ± 0,38)	56 ± 16	31/64" (12,30)



DIMENSIONS In Inches (and millimeters)

Normally Closed-SPST With Push-Pull

30-32



Rating at 115 Vac Resistive	Rating at 220 Vac Resistive	Operations at Rated Load	Part Number	Button Color
1 Amp	¹/2 Amp	100,000	30-32 RED 30-32 BLK	Red Black

Action	Total Travel	Actuating Force (oz.)	Mtg. Hole
Pull-to-Make	.145 ± .015 (3,68 ± 0,38)	56 ± 16	31/64" (12,30)

SPECIFICATIONS

Rating Criteria

For UL recognized switches, see individual switch chart. File number is E35289.

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° to +85°C Mounting Torque: 2 inch-pounds

Switch Materials and Finishes

Mounting Nut and Cover Bushing: Brass, tin zinc

Base: Thermoset plastic

Button: Polyester for 30-16 and 30-32; Phenolic for 30-17, 30-1UL, 30-2, 30-2UL, 30-3UL, 30-6 and 30-6UL; Polycarbonate for all others.

Shorting Bar: Brass with gold over nickel plating for 30-601; brass with fine silver contact surface for all others.

Terminals: Brass with gold over nickel plating for 30-601; commercial brass with fine silver contact surface and silver-plated for all others.

Spring: Tinned music wire

Button Cap: Nylon for 30-17; Polyethylene for 30-251 and 30-252.

Detent Balls: Carbon steel, nickel-plated

Terminal Type: Solder lug

O-Ring Seal: (30-251, 30-252) Nitrile per

MIL-P-5516

CIRCUITRY



ACCESSORIES



Decorative Mounting Nuts

Part Number 30C1023-1 is made for switches with 1/4" (6,35) inch diameter bushings. It may be used with the following Series 30 switches: 30-1, 30-1 UL, 30-2, 30-2 UL, 30-3, 30-6, 30-15, 30-37, 30-251 BLK, 30-251 RED, 30-252 BLK, 30-252 RED, 30-601 BLK and 30-601 RED.

Part Number 07C1040-1 is made for switches with 15/32" (11,91) inch diameter bushings. It may be used with the following Series 30 switches: 30-16 BLK, 30-16 RED, 30-17 BLK, 30-17 RED, 30-32 BLK and 30-32 RED.

For the dimensions, materials and finishes of these decorative mounting nuts, see page E-36.

STANDARD OPTIONS

Decorative mountings, see pages E-24 to E-26.

Button Cap and Guard

The button cap is available in 3 colors: part number 30B1012-5 is red; part number 30B1012-8 is white; and part number 30B1012-9 is black. It may be fastened to the button with adhesive. It may be used with the following Series 30 switches: 30-1, 30-1UL, 30-2, 30-2UL, 30-3, 30-3UL, 30-15, 30-37, 30-601 BLK, and 30-601 RED.

The button guard, part number 10C1015-1 is made to be used with 15/32" (11,91) inch diameter switches to prevent unintentional actuation. It may be used with the following Series 30 switches: 30-16 BLK, 30-16 RED, 30-17 BLK, 30-17 RED, 30-32 BLK, and 30-32 RED

For the dimensions, materials and finishes of the button cap and guard, see page E-36.

ORDERING INFORMATION

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Part Number	Description and Button Color
30-1*	N.O., Standard, Red
30-2*	N.C., Standard, Black
30-3*	N.O., Black
30-6*	N.C., Red
30-15	N.O., Overtravel, Red
30-16 BLK	Push to Make, Black
30-16 RED	Push to Make, Red
30-17 BLK	N.O., Positive Feel, Black
30-17 RED	N.O., Positive Feel, Red
30-32 BLK	Pull to Make, Black
30-32 RED	Pull to Make, Red
30-37 BLK	N.O., Overtravel, Black
30-251 BLK	N.O., Sealed, Black
30-251 RED	N.O., Sealed, Red
30-252 BLK	N.C., Sealed, Black
30-252 RED	N.C., Sealed, Red
30-601 BLK	N.O., Economy, Black
30-601 RED	N.O., Economy, Red

Accessory	
Part Number	Description
30B1012-5	Accessory Cap, Red
30B1012-8	Accessory Cap, White
30B1012-9	Accessory Cap, Black
30C1023-1	Accessory Nut
07C1040-1	Accessory Nut
10C1015-1	Button Guard

*Add "UL" suffix to part number for UL recognized

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

Pushbutton