

## X Series Toggles

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## Product Description

Eaton's new, competitively priced, AC rated X Series toggles offer a standard high rating for both single- and two-pole applications. The new X Series toggle line offers a wide range of switching circuits, functions and accessories. Ratings for single- and two-pole include 20A at 125 Vac and 10A at 277 Vac to handle more severe inductive, motor and lamp loads.

In addition, X Series toggles have a high standard horsepower rating of 1-1/2 hp, 125–250 Vac for two-pole applications.

The easy-to-install toggles also have an industry-standard 0.48 in diameter mounting hole. For added convenience and delivery support, select industry-standard switch circuit part numbers are available from stock. With so many features, X Series toggles can be used in a variety of applications.

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## Application Description

- Commercial and industrial equipment
- Household appliances
- Industrial machinery and automation
- Medical equipment
- Military communications and surveillance
- Rail systems
- Signaling and communications
- Test and lab equipment
- Telecommunications, cable and broadcasting

## Standards and Certifications

- UL Recognized component for Canada File E2702
- RoHS Compliant <sup>①</sup>



## Note

- <sup>①</sup> Visit [www.eaton.com/vcbu](http://www.eaton.com/vcbu) for the most up-to-date list of verified part numbers.

## Product Selection

Single-Pole <sup>①</sup>

Circuit with Toggle in ...

Poles and Throw	UP Position	CENTER Position	DOWN Position <sup>②</sup>	Terminal Type—Catalog Number		
				0.250 in Spade	Screw	Solder Lugs
1PST	ON	NONE	OFF	XTD1A1A2	XTD1A2A2	XTD1A3A2
1PST	ON <sup>③</sup>	NONE	OFF	XTD1F1A2	XTD1F2A2	XTD1F3A2
1PDT	ON	OFF	ON	XTD2B1A	XTD2B2A	XTD2B3A
1PDT	ON	NONE	ON	XTD2C1A	XTD2C2A	XTD2C3A
1PDT	ON	NONE	ON <sup>③</sup>	XTD2D1A	XTD2D2A	XTD2D3A
1PDT	ON <sup>③</sup>	OFF	ON <sup>③</sup>	XTD2E1A	XTD2E2A	XTD2E3A
1PDT	ON	OFF	ON <sup>③</sup>	XTD2G1A	XTD2G2A	XTD2G3A

Two-Pole <sup>④</sup>

Circuit with Toggle in ...

Poles and Throw	UP Position	CENTER Position	DOWN Position <sup>②</sup>	Terminal Type—Catalog Number		
				0.250 in Spade	Screw	Solder Lugs
2PST	ON	NONE	OFF	XTD3A1A2	XTD3A2A2	XTD3A3A2
2PST	ON <sup>③</sup>	NONE	OFF	XTD3F1A2	XTD3F2A2	XTD3F3A2
2PDT	ON	OFF	ON	XTD4B1A	XTD4B2A	XTD4B3A
2PDT	ON	NONE	ON	XTD4C1A	XTD4C2A	XTD4C3A
2PDT	ON	NONE	ON <sup>③</sup>	XTD4D1A	XTD4D2A	XTD4D3A
2PDT	ON <sup>③</sup>	OFF	ON <sup>③</sup>	XTD4E1A	XTD4E2A	XTD4E3A
2PDT	ON	OFF	ON <sup>③</sup>	XTD4G1A	XTD4G2A	XTD4G3A

## Notes

<sup>①</sup> Ratings: 20A at 125 Vac, 10A at 277 Vac, 3/4 hp, 125–250 Vac; recommended up to 15A at 28 Vdc.<sup>②</sup> Keyway position.<sup>③</sup> Indicates momentary position.<sup>④</sup> Ratings: 20A at 125 Vac, 10A at 277 Vac, 1-1/2 hp, 125–250 Vac; recommended up to 15A at 28 Vdc.

## Accessories

See Accessories on Page V11-T4-31.

## Technical Data and Specifications

## X Series Toggles

Description	Specification
Single-pole rating	20A, 125 Vac; 10A, 277 Vac; 3/4 hp 125–250 Vac; Recommended up to 15A at 28Vdc
Two-pole rating	20A, 125 Vac; 10A, 277 Vac; 1-1/2 hp 125–250 Vac; Recommended up to 15A at 28Vdc
Available circuits	1PST, 1PDT, 2PST, 2PDT
Terminal types	Brass screw, brass solder lugs, brass nickel-plated 0.250 in spade
Hardware included	Zinc nickel-plated knurl nut, zinc nickel-plated hex nut
Mounting means	Threaded bushing 12.0 +0.1, –0 mm; 16.5 +1, –1 mm
Keyway	1.8 mm located in DOWN position
Base material	Thermoset molding material
Finish	Bright nickel-plated toggle lever and bushing
Contact mechanism	Slow-make/slow-break butt contact
Contact resistance	50 ohm maximum
Dielectric strength	AC 1500V, 1 minute
Operating temperature	32° to 149°F (0° to 65°C)
Insulation resistance	DC 500V 100M ohm minute
Seal level rating	IP40
Packaging	Sealed in polybag labeled with part number

# 4.6

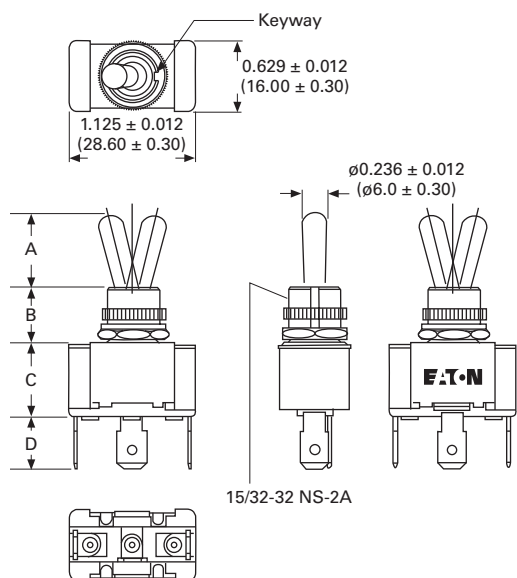
## Toggle Switches

### X Series Toggles

#### Dimensions

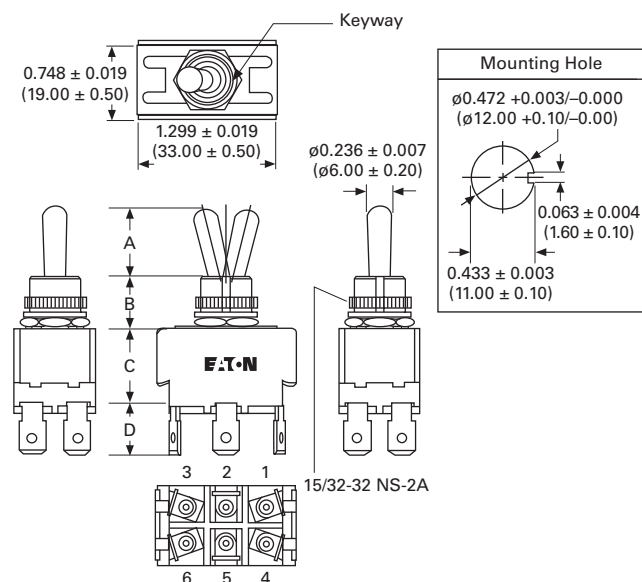
Approximate Dimensions in Inches (mm)

##### Single-Pole



- A** 0.649 ± 0.039  
(16.50 ± 1.00)
- B** 0.468 ± 0.012  
(11.90 ± 0.30)
- C** 0.677 ± 0.019  
(17.20 ± 0.50)
- D** 0.452 ± 0.019  
(11.50 ± 0.50)

##### Two-Pole



- A** 0.649 ± 0.039  
(16.50 ± 1.00)
- B** 0.468 ± 0.012  
(11.90 ± 0.30)
- C** 0.740 ± 0.019  
(18.80 ± 0.50)
- D** 0.452 ± 0.019  
(11.50 ± 0.50)