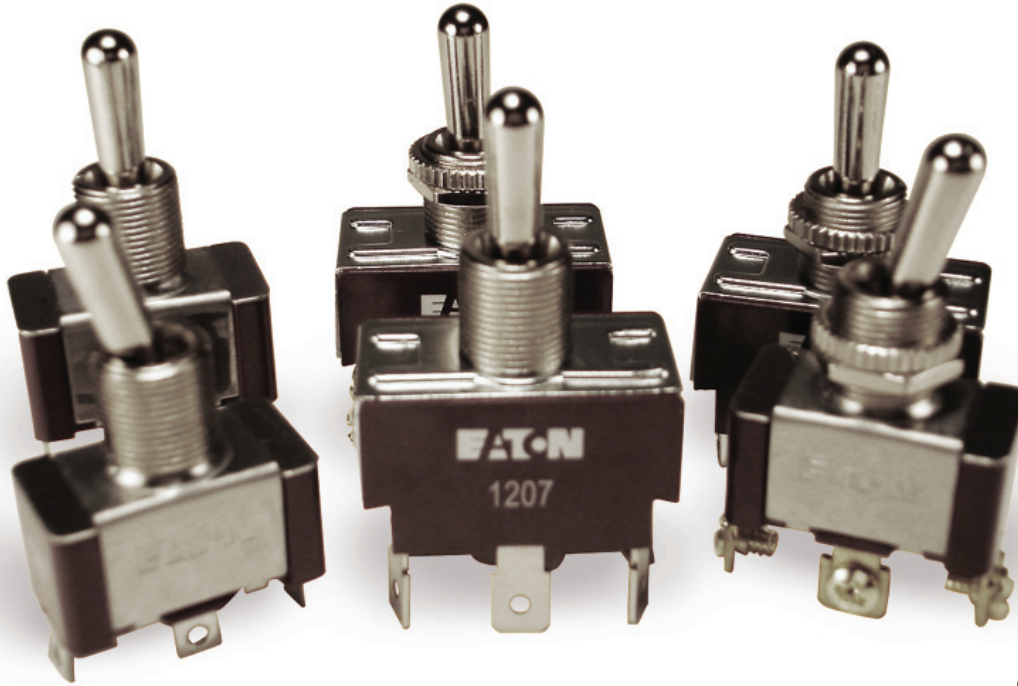


EATON

Powering Business Worldwide

XT Series Toggles Vehicle Controls



Introduction

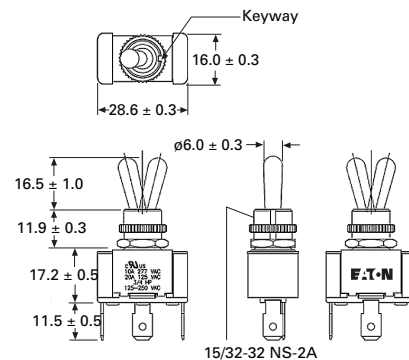
Eaton's new competitively priced ac rated XT Series Toggles offer a standard high rating for both single- and double-pole applications. The new XT Series Toggle line offers a wide range of switching circuits, functions and accessories. Ratings for single- and double-pole include 20 A at 125 Vac and 10 A at 277 Vac to handle more severe inductive, motor and lamp loads. In addition, XT Series Toggles have a high standard horsepower rating of 1-½ hp from 125 – 250 Vac for double-pole applications. The easy-to-install toggles also have an industry standard .480-inch diameter mounting hole. For added convenience and delivery support, select industry standard switch circuit part numbers are available from stock. With so many features, XT Series can be used in a variety of applications!

Applications

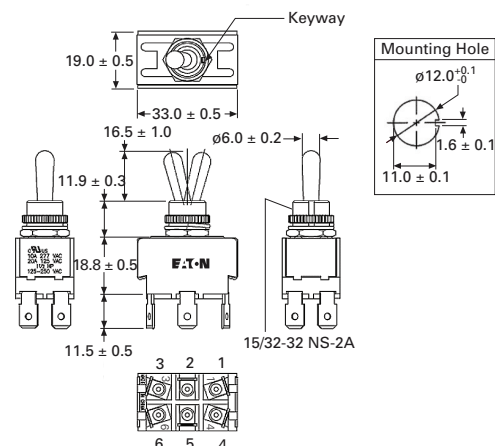
- Commercial and industrial equipment
- Household appliances
- Industrial machinery and automation
- Medical equipment
- Military communications and surveillance
- Rail systems
- Signaling and communications
- Test and lab equipment
- Telecommunications, cable and broadcasting

Accessories

For more information on relevant accessories, see publication number TD07002001E.



Single-Pole Dimensions in mm




Double-Pole Dimensions in mm



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Specifications Summary

Single-Pole Rating	20 A, 125 Vac; 10 A, 277 Vac; 3/4 hp 125 – 250 Vac
Double-Pole Rating	20 A, 125 Vac; 10 A, 277 Vac; 1-1/2 hp 125 – 250 Vac
Available Circuits	1PST, 1PDT, 2PST, 2PDT
Terminal Types	Copper Screw ❶, Brazen Tin-Plated Solder Lugs, Brazen Nickel-Plated .250" Spade
Hardware Included	Knurl Nut ❶, Hex Nut ❶
Mounting Means	Threaded Bushing 12.0 +.1, -0 mm; 16.5 +1, -1 mm
Keyway	1.8 mm Located in Down Position
Base Material	Thermoset Molding Material
Finish	Zinc Alloy Toggle and Lever
Contact Mechanism	Slow-make/Slow-break Butt Contact
Contact Resistance	50 Ohm Maximum
Dielectric Strength	AC 1500 V, 1 Minute
Operating Temperature	0 ~ 65°C
Insulation Resistance	DC 500 V 100M Ohm Minute
Seal Level Rating	IP40
Approval	UL® Recognized component for Canada (cUR marked): File E2702; RoHS Compliant 
Packaging	Sealed in Polybag Labeled with Part Number

❶ Furnished bulk packaged.



Single-Pole — Rating 20 A at 125 Vac; 10 A at 277 Vac; 3/4 hp, 125 – 250 Vac; Recommended up to 15 A at 28 Vdc

Poles and Throw	Circuit with Toggle In			Terminal Type — Catalog Number		
	UP Position	CENTER Position	DOWN Position ❷	.250 Spade	Screw	Solder Lugs
1 PST	ON	NONE	OFF	XTD1A1A2	XTD1A2A2	XTD1A3A2
1 PST	ON ❸	NONE	OFF	XTD1F1A2	XTD1F2A2	XTD1F3A2
1 PDT	ON	OFF	ON	XTD2B1A	XTD2B2A	XTD2B3A
1 PDT	ON	NONE	ON	XTD2C1A	XTD2C2A	XTD2C3A
1 PDT	ON	NONE	ON ❸	XTD2D1A	XTD2D2A	XTD2D3A
1 PDT	ON ❸	OFF	ON ❸	XTD2E1A	XTD2E2A	XTD2E3A
1 PDT	ON	OFF	ON ❸	XTD2G1A	XTD2G2A	XTD2G3A

❷ Keyway position.

❸ Indicates momentary position.

Double-Pole — Rating 20 A at 125 Vac; 10 A at 277 Vac; 1-1/2 hp at 125 – 250 Vac; Recommended up to 15 A at 28 Vdc

Poles and Throw	Circuit with Toggle In			Terminal Type — Catalog Number		
	UP Position	CENTER Position	DOWN Position ❹	.250 Spade	Screw	Solder Lugs
2 PST	ON	NONE	OFF	XTD3A1A2	XTD3A2A2	XTD3A3A2
2 PST	ON ❺	NONE	OFF	XTD3F1A2	XTD3F2A2	XTD3F3A2
2 PDT	ON	OFF	ON	XTD4B1A	XTD4B2A	XTD4B3A
2 PDT	ON	NONE	ON	XTD4C1A	XTD4C2A	XTD4C3A
2 PDT	ON	NONE	ON ❺	XTD4D1A	XTD4D2A	XTD4D3A
2 PDT	ON ❺	OFF	ON ❺	XTD4E1A	XTD4E2A	XTD4E3A
2 PDT	ON	OFF	ON ❺	XTD4G1A	XTD4G2A	XTD4G3A

❹ Keyway position.

❺ Indicates momentary position.

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Powering Business Worldwide



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Toggle Switch Accessories

Technical Data TD07002001E

Effective September 2008

TABLE 1. INDICATING PLATES FOR 15/32 INCH BUSHING MOUNTED SWITCHES

KEYWAY LOCATION	MARKING		MATERIAL	FINISH	PART NUMBER	
	OPPOSITE KEYWAY	KEYWAY SIDE				
	ON	OFF	.032 Inch Steel	Plain Statuary Bronze Burnished Nickel	30-5632 30-5632-3 30-5632-4	
			.032 Inch Brass	Black Cupric Oxide ①	30-2899-3	
	RAD	PHO	.032 Inch Steel	Statuary Bronze Burnished Nickel	30-5632-7 30-5632-6	
	RUN HOT HI ON	START COLD LOW STOP	.032 Inch Steel	Burnished Nickel	30-5632-11 30-5632-15 30-5632-16 30-5632-17	
	FOR AUTO PUSH RUN	REV TEST START TEST	.032 Inch Steel	Burnished Nickel	30-2899-2 30-2899-6 30-2899-7 30-2899-9	
	BLANK	BLANK	.032 Inch Steel .032 Inch Steel .032 Inch Brass	Plain Burnished Nickel Brushed	30-5632-5 30-5632-8 30-5632-9	
	Keyway On Bottom					
		ON OFF	OFF ON	.032 Inch Steel	Burnished Nickel	30-5632-13 30-2899-8
	Keyway On Side					
		T OFF SET BLANK	B ON RUN RESET	.032 Inch Steel	Burnished Nickel	30-5632-12 30-5632-14 30-2899-10 30-2899-12
Keyway on Top						
	O I	I O	.032 Inch Steel	Burnished Nickel	30-5632-23 30-5632-19	
Keyway on Top						

① White lettering.

TABLE 2. SWITCH GUARDS ①

SWITCH POSITIONS	KEYWAY LOCATION	MOUNTING	CATALOG NUMBER
2	Opposite Hinged End	OHM	E10TA104

① Red phenolic lever material.

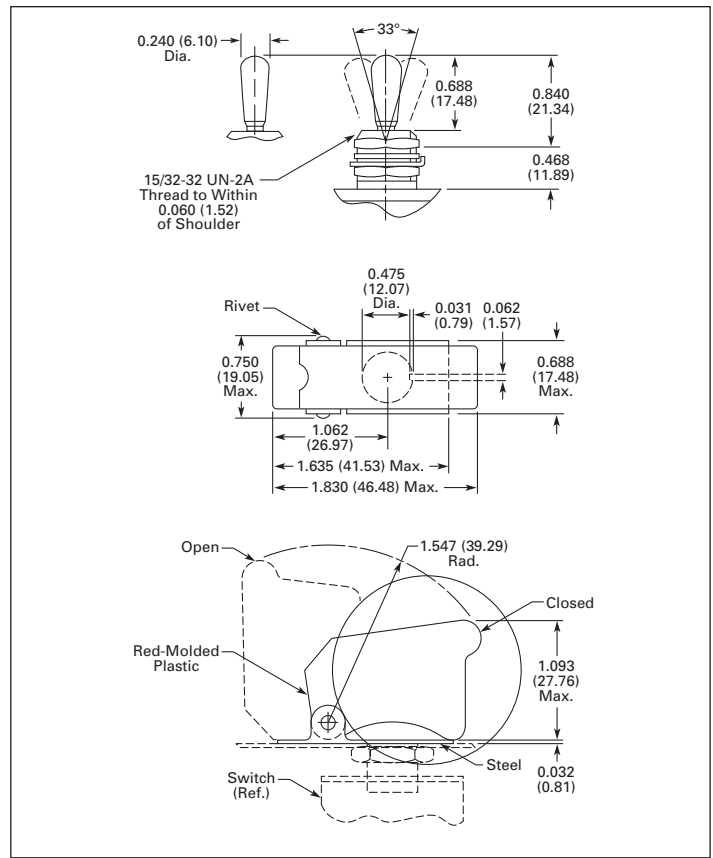


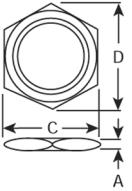
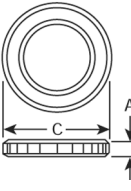
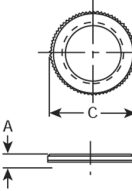
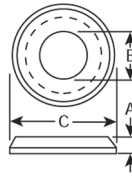
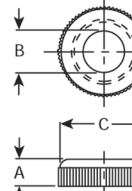
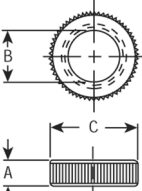
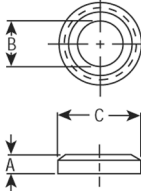
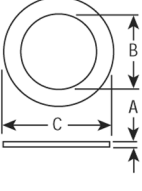
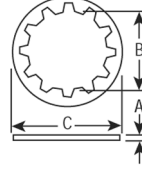
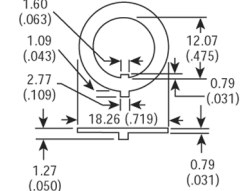
FIGURE 1. SWITCH GUARD — APPROXIMATE DIMENSIONS IN INCHES (MM)

TABLE 3. MOUNTING HARDWARE FOR ONE-HOLE MOUNTING SWITCHES — DIMENSIONS MM (INCHES) ②

SIZE	DESCRIPTION	MATERIAL	THICKNESS (DIM. A)	INSIDE DIAMETER (DIM. B)	O.D. OR DIM. ACROSS FLATS (DIM. C)	DIM. ACROSS CORNERS (DIM. D)	CATALOG NUMBER
Mounting Nuts							
15/32-32	Hexagon Locknut	Zinc-Chromate Treated	1.91 (.075)	—	15.88 (.625)	—	15-192
		Bright Nickel Plated Brass	1.98 (.078)	—	13.87 (.546)	15.88 (.625)	15-2525-58
		Nickel Plated Brass	1.98 (.078)	—	13.87 (.546)	15.88 (.625)	15-2525-59
		Zinc-Chromate Treated	4.76 (.188)	19.89 (.783)	25.80 (1.125)	—	15-2528-2
Hexagon Facenut	Nickel Plated Brass	Nickel Plated Brass	1.98 (.078)	—	14.27 (.562)	16.66 (.656)	15-966-2
		Semi-Lustre Nickel Plated Brass	1.98 (.078)	—	14.27 (.562)	16.66 (.656)	19-966-6
Knurled Facenut	Bright Nickel Plated Brass	Bright Nickel Plated Brass	1.68 (.066)	—	14.27 (.562)	—	15-124F1
		Black Cupric Oxide Plated Brass	1.68 (.066)	—	14.27 (.562)	—	15-124F5
		Nickel Plated Brass	2.77 (.109)	—	15.88 (.625)	—	15-90
Chamfered Dress Nut	Bright Nickel Plated Brass	3.84 (.151)	7.92 (.312)	17.45 (.687)	—	15-994-2	
Standard Knurl Nut with Shoulder	Nickel Plated Brass	2.77 (.109)	—	15.06 (.593)	—	15-2534-14	
Dress Nut	Satin Chrome Plated Brass	Satin Chrome Plated Brass	3.18 (.125)	—	14.27 (.562)	—	15-2523-4
		Black Nylon	4.75 (.187)	9.91 (.390)	16.26 (.640)	—	15-1048-3
Knurled Dress Nut	Chrome Plated Brass	4.75 (.187)	7.92 (.312)	16.26 (.640)	—	15-189-5	
Mounting Washers and Locking Ring							
For 15/32 Bushing	Plain Washer	Cadmium Plated Steel	0.79 (.031)	12.29 (.484)	19.05 (.750)	—	16-1382
	Internal Tooth Lockwasher	Trivalent Zinc Plated Steel	0.53 (.021)	11.96 (.471)	15.06 (.593)	—	16-3557
	Locking Ring	Zinc Plated Steel	1.02 (.040)	12.07 (.475)	18.24 (.718)	—	29-761-5

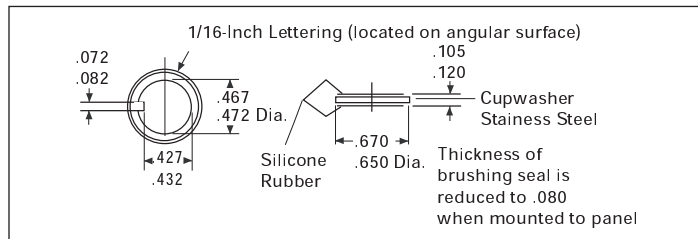
② Hardware items are sold for use with Eaton switches only. Minimum ordering quantity on all items is 100. All bushing mounted switches are furnished with two mounting nuts. One nut is mounted behind the panel to prevent the bushing sleeve from being distorted if the front panel is over tightened. Eaton accepts no responsibility for damage to switches mounted without the backup nuts.

TABLE 4. DIMENSIONS — APPROXIMATE IN MM (INCHES)

Hexagon Locknuts or Facenuts	Knurled Facenut	Knurled Nut with Shoulder	Chamfered Dress Nut Catalog No. 15-994-2	Knurled Dress Nut Catalog No. 15-189-5
				
Knurled Dress Nut Catalog No. 15-1048-3	Dress Nut Catalog No. 15-2523-4	Plain Washer	Internal Tooth Lockwasher	Locking Ring
				

Panel Seal

- Prevents moisture and contaminants from entering panel enclosure
- Behind panel mounting
- Stainless steel cup washer ensures proper seating of silicone rubber seal
- Seal withstands 20 psi water pressure
- Cat. No. 32-341



2-Pole Base Connector

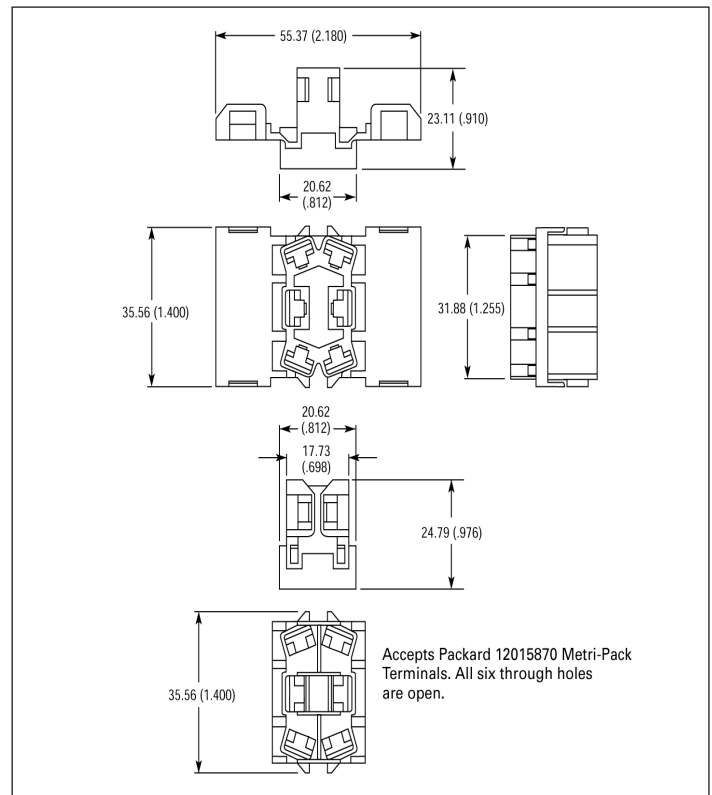


FIGURE 2. 2-POLE BASE CONNECTOR, CATALOG NUMBER 28-3426