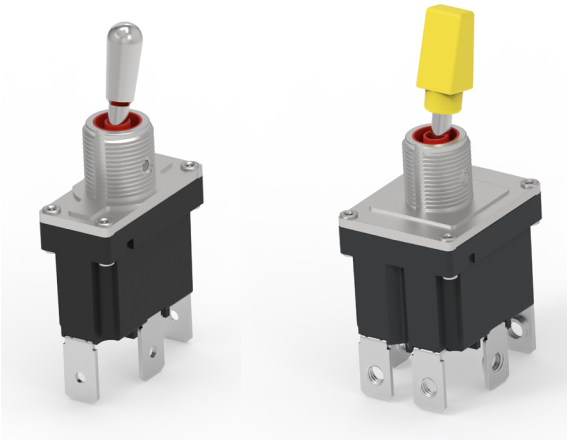
SEALED TOGGLE SWITCHES

TYPE DST SERIES

INTRODUCTION

TE Connectivity's latest 12 Amp sealed toggle switches are designed to deliver reliable performance in harsh environments. Featuring an IP67-rated seal, these switches offer excellent protection against dust and moisture, making them highly reliable for rugged applications. Engineered for power applications up to 12 Amps, they are available in both single and double pole configurations with a wide range of switching options. To accommodate various installation needs, these high-quality switches come with two termination styles, quick-connect or screw, and two toggle styles for enhanced versatility. With top-tier construction and durability, TE Connectivity's sealed toggle switches provide a dependable solution for demanding industrial and commercial applications.



FEATURES

- IP67 seal for harsh environments
- 12 Amp rated contacts and design
- High power handling capacity
- Ease in switching power applications

APPROVALS

- UL
- ENEC

APPLICATIONS

- Industrial and commercial power
- Vehicle and machine controls
- HVAC (Heating, ventilation, and air conditioning)
- Control panels
- Hand held controls
- Medical devices

CONTACT DATA

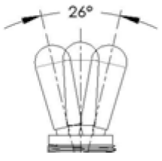
Contact Rating	12Amps @125/250VAC (UL61058)
Plating	Fixed Terminal: Nickel plating over copper alloy.
	Movable contact: Silver plated over copper alloy.

IP67 front panel protection Sealed Toggle Switch.

ELECTRICAL CHARACTERISTICS

Type	Test conditions	Requirements
Contact Resistance	@2 VDC -4 VDC 100mA	20 mΩ max.
Insulation Resistance	Measurements shall be made following application of 500 V/DC 100mA potential across terminals and cover for 1 minute.	1,000 MΩ, 500 Vmin.
Dielectric withstanding voltage	1,500 Vrms (50Hz min.) between terminals for 1 minute.	There shall be no breakdown or flashover.

MECHANICAL CHARACTERISTICS

Type	Test conditions	Requirements
Solder heat Resistance	Manual Soldering Soldering Temperature: max.350 Continuous Soldering Time:max. 5 seconds.	1. Shall be free from pronounced backlash and falling-off or breakage terminals. 2. As per contact resistance and dielectric withstanding voltage
Operating life	Measurements shall be made following the test forth below: 1. 12A@125VAC resistive load - terminal nickel plated. 12A@250VAC resistive load - terminal nickel plated. 2. Rate of Operation: 6-8 operation cycles per minute. 3. Electronics life test:30,000 make-and-break cycles at full load. 4. Mechanical life test:Without load 30,000 cycles min.	1. Dielectric Strength: 1,500V. 2. Insulation Resistance: 1,000MΩ min.
Nut locking torque	Copper alloy nut to Zinc alloy bushing.	max. 40kgf.
Terminal locking screw torque value	For screw terminal.	max.5kgf.
O-ring locking torque value	For waterproof o-ring.	3±1kgf.
Actuator angular movement	Angular movement right to left.	

TEMPERATURE RESISTANCE

Type	Test conditions	Requirements
Operating Life Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1. Temperature: 85±2 °C 2. Time: 48 hours.	As per contact resistance and dielectric withstanding voltage
Operating Life Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1. Temperature: -30±3 °C 2. Time:48 hours."	As per contact resistance and dielectric withstanding voltage

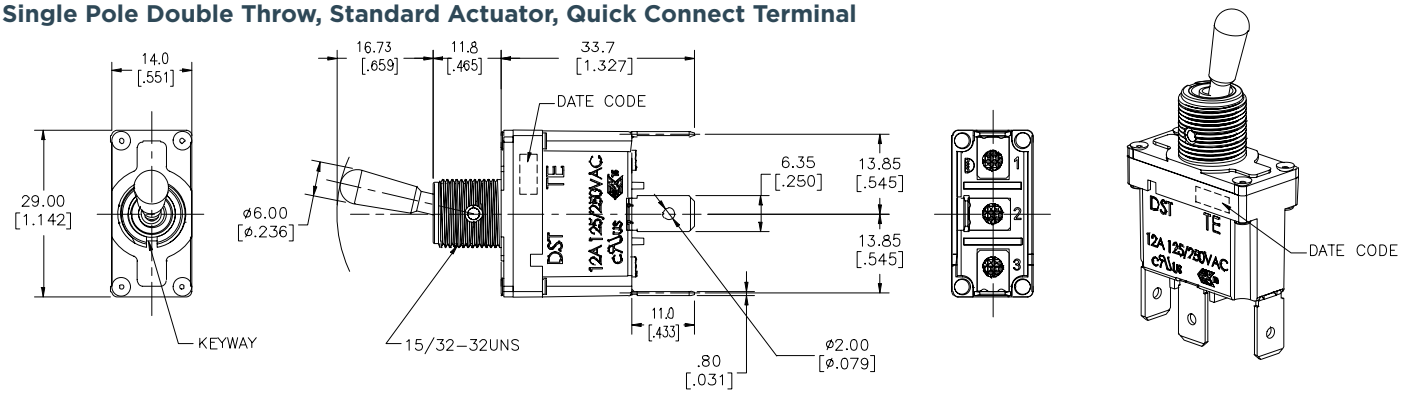
ENVIRONMENT RESISTANCE

Type	Test conditions	Requirements
Humidity Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1. Temperature:40±3 °C 2. Relative Humidity: 90-95% 3. Time:48 hours.	1. Contact Resistance: 20 mΩ max. 2. Insulation Resistance: 1,000MΩ min.
Salt Spray Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1. Temperature:30±2 °C 2. The ratio of salt-water: 5% 3. The spray amount of salt- water: 1~2 ml/h. 4. Time:96 hours.	The testing standard based on bubble, crack, and magnifying glass with gauge.
Test of IP 67	Sealed Toggle Switches Protected against the effects of temporary immersion in water. (1 meter below the surface of the water for a duration of 30min.).	IP67 According to EN 60529
Thermal Shocks	Samples shall be tested in accordance with NF EN60068-2-14. test Nb; Duration of exposure : 30mn per temperature Changing time: 30sec max Recovery time: 1 hour Temperatures: -40°C/85°C Number of cycles: 20	Items electrical and mechanical performances shall be satisfied.
Damp Heat	Samples shall be tested in accordance with NF EN 60068-2-30. Test temperature: 55°C ±2°C Relative Humidity: 90 to 96% Recovery time: 1 hour Number of cycles: 6	Items electrical and mechanical performances shall be satisfied.

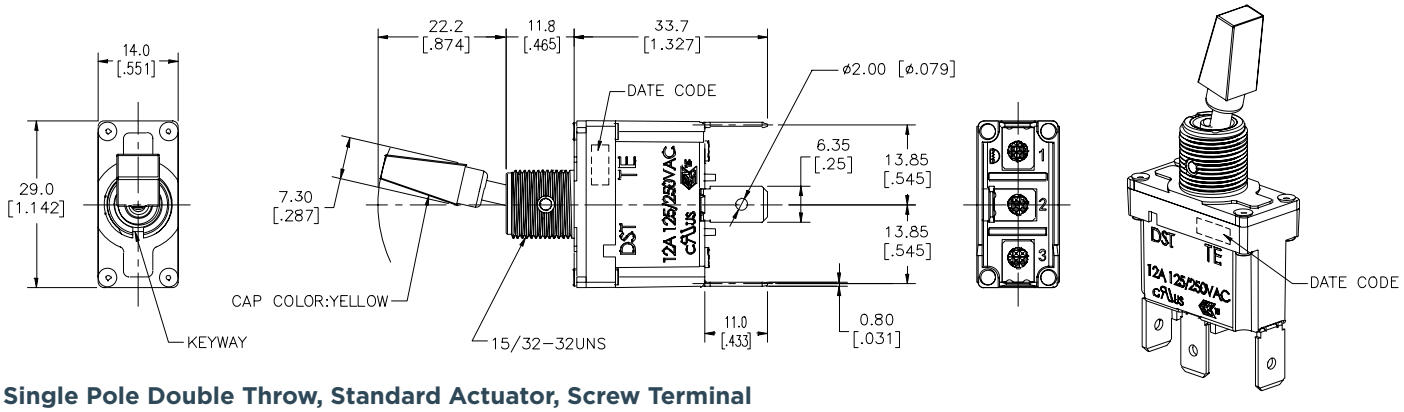
DRAWINGS (Unit:mm)

SINGLE POLE TOGGLE SWITCHES

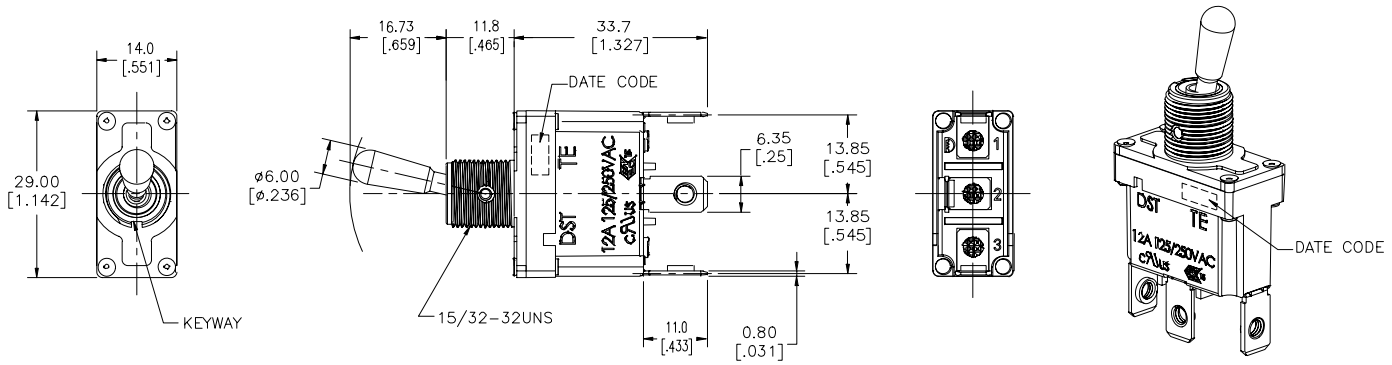
Single Pole Double Throw, Standard Actuator, Quick Connect Terminal



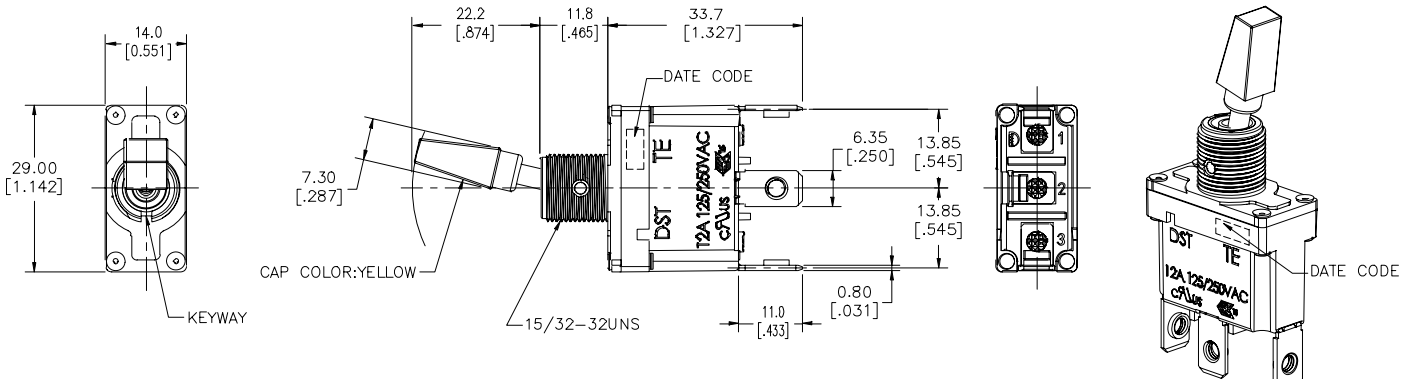
Single Pole Double Throw, Yellow Cap on Actuator, Quick Connect Terminal



Single Pole Double Throw, Standard Actuator, Screw Terminal



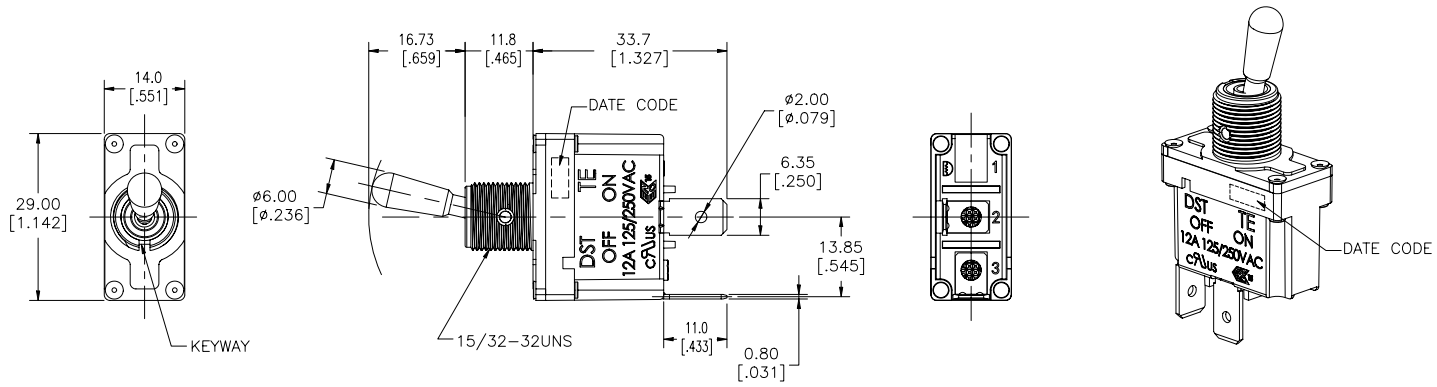
Single Pole Double Throw, Yellow Cap on Actuator, Screw Terminal



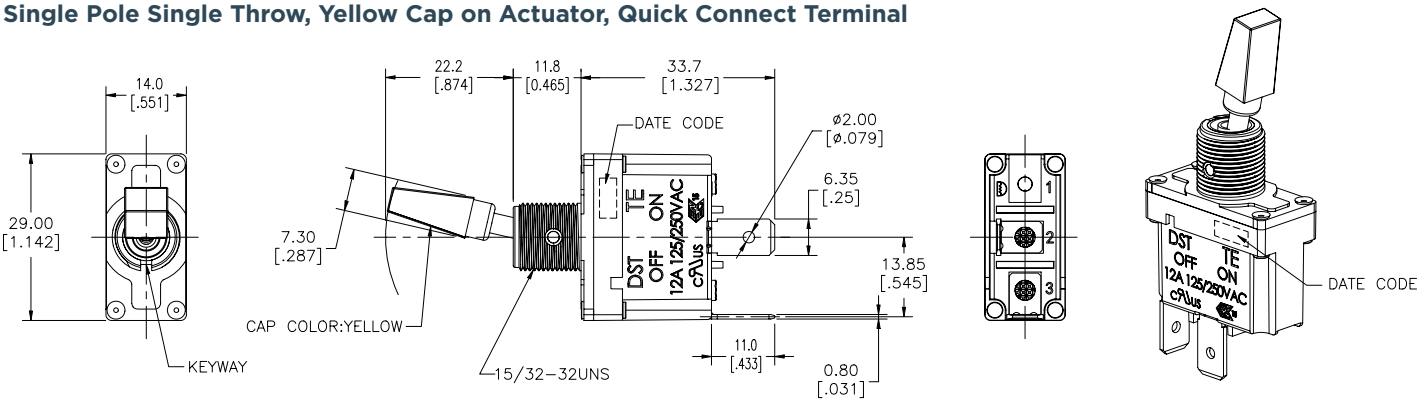
Sealed toggle switches

Type DST Series

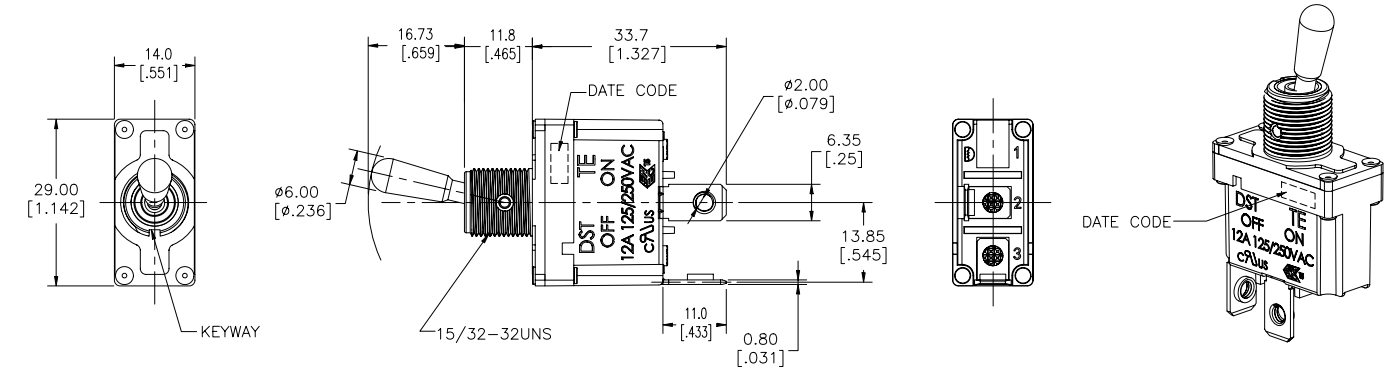
Single Pole Single Throw, Standard Actuator, Quick Connect Terminal



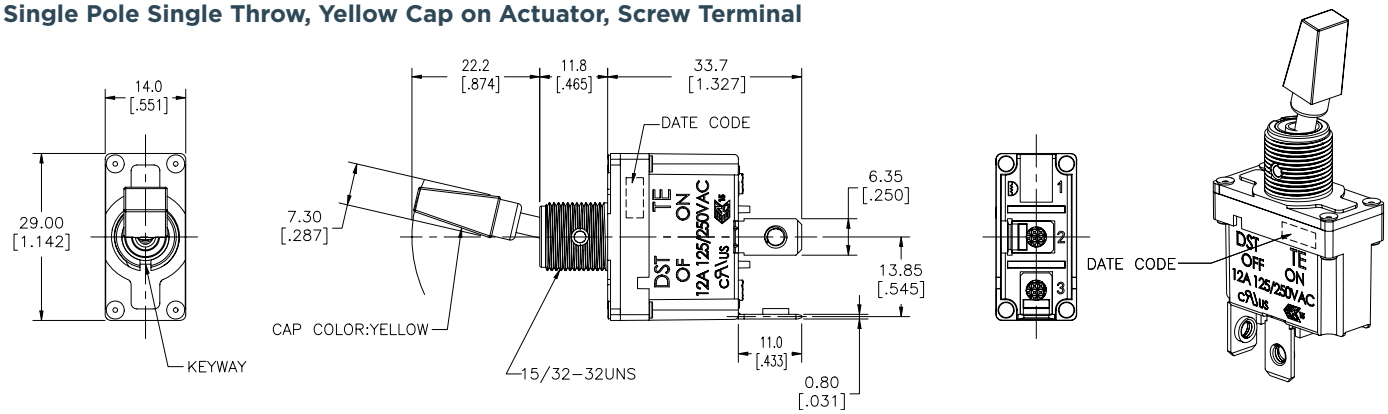
Single Pole Single Throw, Yellow Cap on Actuator, Quick Connect Terminal



Single Pole Single Throw, Standard Actuator, Screw Terminal

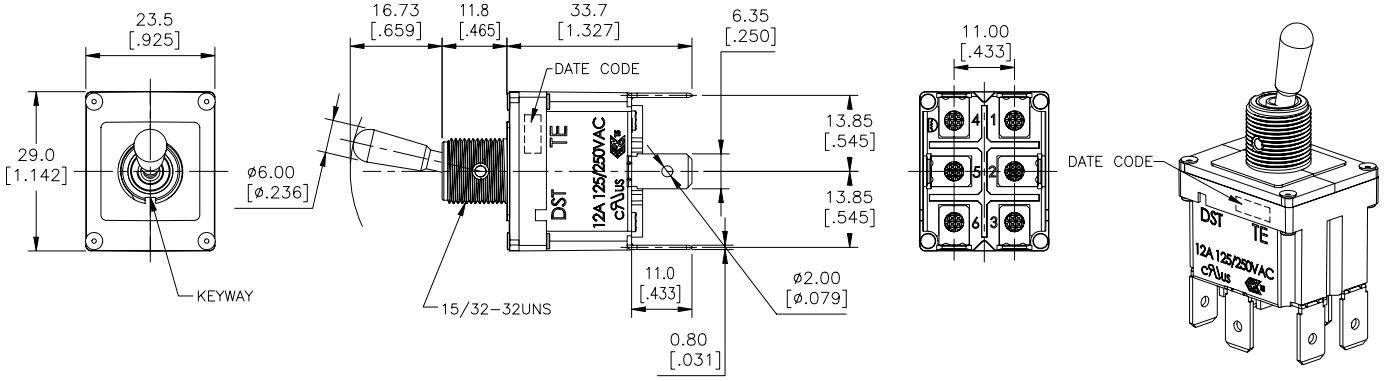


Single Pole Single Throw, Yellow Cap on Actuator, Screw Terminal

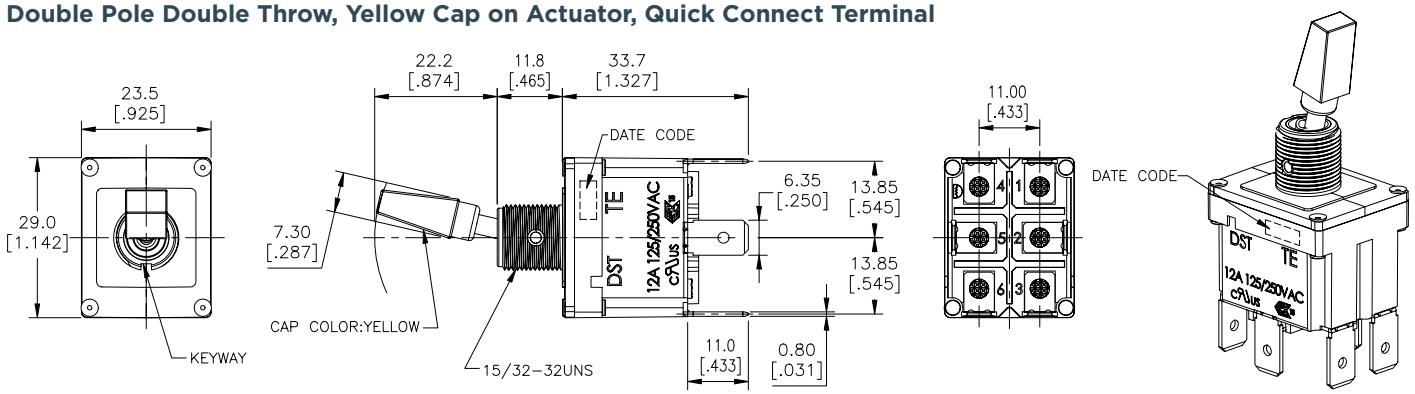


DOUBLE POLE TOGGLE SWITCHES

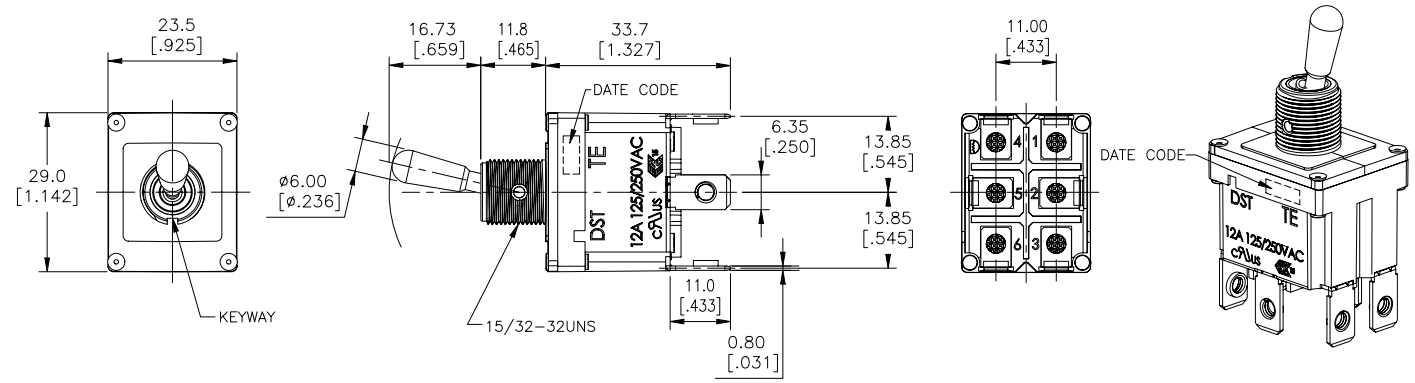
Double Pole Double Throw, Standard Actuator, Quick Connect Terminal



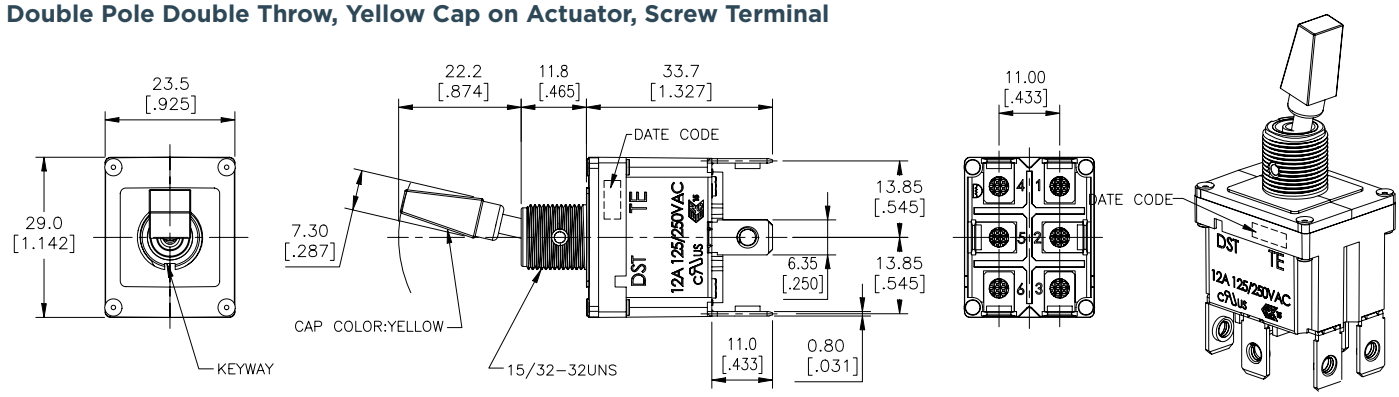
Double Pole Double Throw, Yellow Cap on Actuator, Quick Connect Terminal



Double Pole Double Throw, Standard Actuator, Screw Terminal



Double Pole Double Throw, Yellow Cap on Actuator, Screw Terminal



ORDERING INFORMATION

Part Number
DST _ _ _ _ _

Series

DST	

Current Rating:

12	12 Amps

Poles

S	Single Pole
D	Double Pole

Baton Style

S	Standard
Y	Yellow

Pack Style

1	On – (On)
2	On – Off – On
3	(On) – Off – (On)
4	On – On
5	On – Off – (On)
6	On – Off

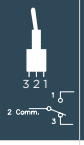
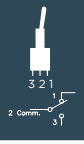
Resistance Value

25	250 QC / Solder Tab
35	M3.5 Screw Terminals

Sealed toggle switches

Type DST Series

SINGLE POLE TOGGLE SWITCHES

Smart Part Number	Poles	Throws	Function	Terminal	Yellow Cap	POS 1 	POS 2 	POS 3 	TE Part Number
DST12SY251	1	2	On-none-On	Quick Connect	No	2-3	NONE	2-1	2493803-1
DST12SY252	1	2	On-none-(On)	Quick Connect	No	2-3	NONE	(2-1)	2493803-2
DST12SY253	1	2	(On)-Off-(On)	Quick Connect	No	(2-3)	Off	(2-1)	2493803-3
DST12SS254	1	2	On-Off-On	Quick Connect	No	2-3	Off	2-1	2493803-4
DST12SS251	1	2	On-Off-(On)	Quick Connect	No	2-3	Off	(2-1)	2493803-5
DST12SS253	1	2	On-None-On	Screw Terminal	No	2-3	NONE	2-1	2493803-6
DST12SS252	1	2	On-None-(On)	Screw Terminal	No	2-3	NONE	(2-1)	2493803-7
DST12SY254	1	2	On-Off-On	Screw Terminal	No	2-3	Off	2-1	2493803-8
DST12SS354	1	2	(On)-Off-(On)	Screw Terminal	No	(2-3)	Off	(2-1)	2493803-9
DST12SS351	1	2	On-Off-(On)	Screw Terminal	No	2-3	Off	(2-1)	1-2493803-0
DST12SS352	1	2	On-None-(On)	Quick Connect	Yes	2-3	None	(2-1)	1-2493803-1
DST12SS353	1	2	On-Off-On	Quick Connect	Yes	2-3	Off	2-1	1-2493803-2
DST12SY354	1	2	(On)-Off-(On)	Quick Connect	Yes	(2-3)	Off	(2-1)	1 -2493803-3
DST12SS255	1	2	On-none-On	Quick Connect	Yes	2-3	None	2-1	1 -2493803-4
DST12SS355	1	2	On-Off-(On)	Quick Connect	Yes	2-3	Off	(2-1)	1-2493803-5
DST12SY351	1	2	On-Off-On	Screw Terminal	Yes	2-3	Off	2-1	1-2493803-6
DST12SY352	1	2	On-none-On	Screw Terminal	Yes	2-3	None	2-1	1-2493803-7
DST12SY353	1	2	On-none-(On)	Screw Terminal	Yes	2-3	None	(2-1)	1-2493803-8
DST12SY355	1	2	(On)-Off-(On)	Screw Terminal	Yes	(2-3)	Off	(2-1)	1-2493803-9
DST12SY255	1	2	On-Off-(On)	Screw Terminal	Yes	2-3	Off	(2-1)	2-2493803-0

Smart Part Number	Poles	Throws	Function	Terminal	Yellow Cap	POS 1 	POS 2 	POS 3 	TE Part Number
DST12SS635	1	2	On-none-Off	Screw Terminal	No	2-3	None	Off	2-2493803-1
DST12SS625	1	2	On-none-Off	Quick Connect	No	2-3	None	Off	2-2493803-2
DST12SY635	1	2	On-none-Off	Screw Terminal	Yes	2-3	None	Off	2-2493803-3
DST12SY625	1	2	On-none-Off	Quick Connect	Yes	2-3	None	Off	2-2493803-4

DOUBLE POLE TOGGLE SWITCHES

Smart Part Number	Poles	Throws	Function	Terminal	Yellow Cap	POS 1 	POS 2 	POS 3 	TE Part Number
DST12DS354	2	2	On-none-On	Quick Connect	No	2-3,5-6	NONE	2-1,5-4	2493903-1
DST12DS351	2	2	On-none-(On)	Quick Connect	No	2-3,5-6	NONE	(2-1,5-4)	2493903-2
DST12DS352	2	2	On-Off-On	Quick Connect	No	2-3,5-6	Off	2-1,5-4	2493903-3
DST12DS353	2	2	(On)-Off-(On)	Quick Connect	No	(2-3,5-6)	Off	(2-1,5-4)	2493903-4
DST12DS355	2	2	On-Off-(On)	Quick Connect	No	2-3,5-6	Off	(2-1,5-4)	2493903-5
DST12DS254	2	2	On-none-On	Screw Terminal	No	2-3,5-6	NONE	2-1,5-4	2493903-6
DST12DS251	2	2	On-none-(On)	Screw Terminal	No	2-3,5-6	NONE	(2-1,5-4)	2493903-7
DST12DS252	2	2	On-Off-On	Screw Terminal	No	2-3,5-6	Off	2-1,5-4	2493903-8
DST12DS253	2	2	(On)-Off-(On)	Screw Terminal	No	(2-3,5-6)	Off	(2-1,5-4)	2493903-9
DST12DS255	2	2	On-Off-(On)	Screw Terminal	No	2-3,5-6	Off	(2-1,5-4)	1 -2493903-0
DST12DY354	2	2	On-none-On	Quick Connect	Yes	2-3,5-6	NONE	2-1,5-4	1 -2493903-1
DST12DY351	2	2	On-none-(On)	Quick Connect	Yes	2-3,5-6	NONE	(2-1,5-4)	1 -2493903-2
DST12DY352	2	2	On-Off-On	Quick Connect	Yes	2-3,5-6	Off	2-1,5-4	1 -2493903-3
DST12DY353	2	2	(On)-Off-(On)	Quick Connect	Yes	(2-3,5-6)	Off	(2-1,5-4)	1 -2493903-4
DST12DY355	2	2	On-Off-(On)	Quick Connect	Yes	2-3,5-6	Off	(2-1,5-4)	1 -2493903-5
DST12DY254	2	2	On-none-On	Screw Terminal	Yes	2-3,5-6	NONE	2-1,5-4	1 -2493903-6
DST12DY251	2	2	On-none-(On)	Screw Terminal	Yes	2-3,5-6	NONE	(2-1,5-4)	1 -2493903-7
DST12DY252	2	2	On-Off-On	Screw Terminal	Yes	2-3,5-6	Off	2-1,5-4	1 -2493903-8
DST12DY253	2	2	(On)-Off-(On)	Screw Terminal	Yes	(2-3,5-6)	Off	(2-1,5-4)	1 -2493903-9
DST12DY255	2	2	On-Off-(On)	Screw Terminal	Yes	2-3,5-6	Off	(2-1,5-4)	2-2493903-0

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