

8500 Series

Sealed Miniature Power Toggle Switches



Agency Approvals

Agency	Agency File Number	
	E42363	
	851 type: ENEC-05689	852 type: ENEC-05703

Specifications

Contact Rating	20RA 277V ~ 25T125 20GPA 277V ~ 25T125 16(6)A 250V ~ 40T125 7A 72VDC ~ 40T125 14A 36VDC ~ 40T125
Electrical / Mechanical Life	10,000 Cycles
Contact Resistance	Below 20mΩ @ 2-4V DC, 1A
Insulation Resistance	200MΩ 500V DC Min.
Dielectric Strength	Between Terminals: 1500V AC (50-60Hz) (1 Min Max.) Between Terminals and Metal Frame: AC 3000V (50-60Hz) (1 Min Max.)
Operating / Storage Temperature	-40° C to 125°C
Solderability	Soldering Temperature: 245±5°C Dipping time 3 ± 0.5 second

Description

Our new 8500 series of Miniature Power Toggle Switches is engineered to meet stringent performance requirements in demanding applications. Featuring an IP67-rated sealed construction, these switches ensure reliable operation in harsh environments. With high current capability up to 20A 277V 25T125 and robust internal architecture, they deliver stable electrical performance and minimal losses. Designed for longevity, these toggle switches offer extended mechanical life with precise, repeatable actuation, making them an ideal solution for high-reliability and space-constrained power control applications.

Features & Benefits

- Reliable protection grade reaches IP67
- Flame-retardant UL94-V0
- High-strength metal operating levers and panels
- UL and ENEC certified
- Ideal for applications with exposure to harsh environments

Applications

- Maritime and Boating
- Industrial Control Equipment
- Commercial and Off-Road Vehicles
- Aerospace equipment
- Military equipment

Materials

Actuator	Copper Alloy, Nickel Plated
Bushing	Copper Alloy, Nickel Plated
Contact	Silver Alloy
Movable Spring	Copper Alloy, Silver Plated
Shaft	SUS303
Tip	PPS (UL94 V-0)
Spacer	PA9T (UL94 V-0)
Nut	Copper Alloy
Sealing washer	SUS304/NBR
Bracket	Copper Alloy, Nickel Plated
Terminals	Copper Alloy, Silver Plated

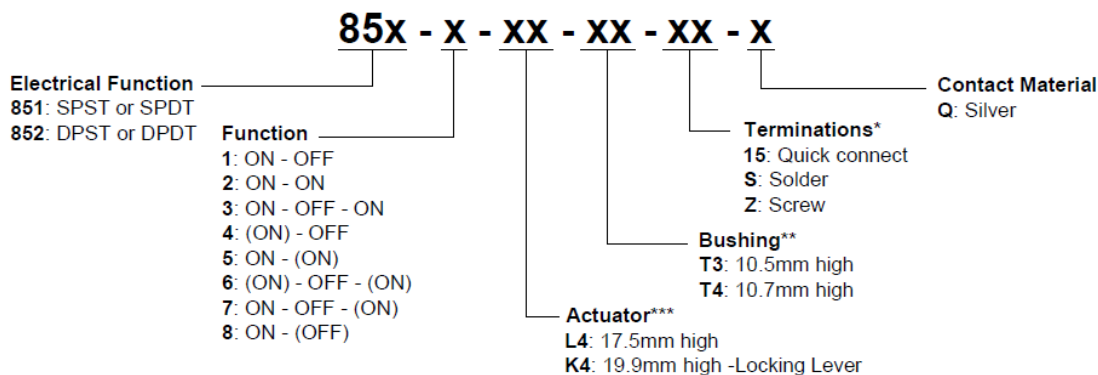
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Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.



Notes:

*: "15" termination is the standard configuration. "Z" and "S" terminations available on demand.

** : Bushing "T3" is only applicable for "851" switch types; Bushing "T4" is only applicable for "852" switch types.

***: K4 actuator only available for "852" switch types

Orderable Part Numbers and Packaging

PN	Description	Circuitry	Tray
G01955081	8511L4T315Q	SPST	35PCS
G01955082	8512L4T315Q	SPDT	35PCS
G01955083	8513L4T315Q	SPDT	35PCS
G01955084	8514L4T315Q	SPST	35PCS
G01955085	8515L4T315Q	SPDT	35PCS
G01955086	8516L4T315Q	SPDT	35PCS
G01955087	8517L4T315Q	SPDT	35PCS
G01955088	8518L4T315Q	SPST	35PCS

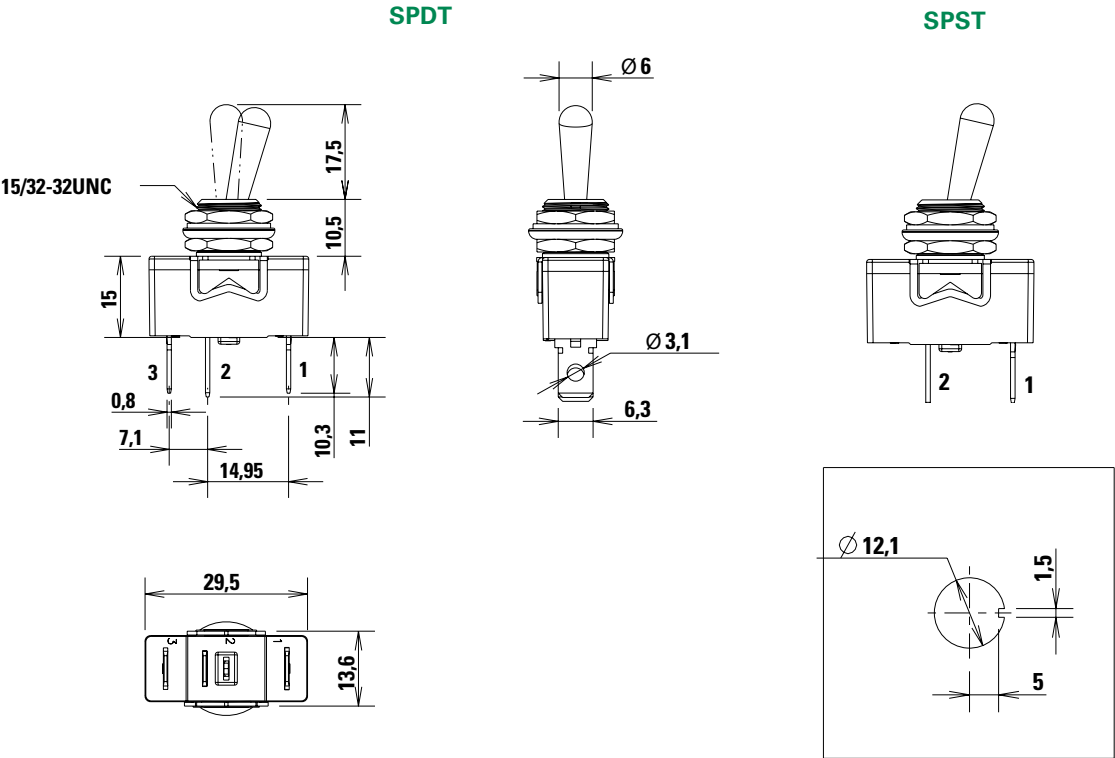
PN	Description	Circuitry	Tray
G01955142	8521L4T415Q	DPST	25PCS
G01955143	8522L4T415Q	DPDT	25PCS
G01955144	8523L4T415Q	DPDT	25PCS
G01955145	8524L4T415Q	DPST	25PCS
G01955146	8525L4T415Q	DPDT	25PCS
G01955147	8526L4T415Q	DPDT	25PCS
G01955148	8527L4T415Q	DPDT	25PCS
G01955149	8528L4T415Q	DPST	25PCS
G01955150	8521K4T415Q	DPST	25PCS
G01955151	8522K4T415Q	DPDT	25PCS
G01955152	8523K4T415Q	DPDT	25PCS
G01966876	8524K4T415Q	DPST	25PCS
G01966877	8525K4T415Q	DPDT	25PCS
G01966878	8526K4T415Q	DPDT	25PCS
G01966879	8527K4T415Q	DPDT	25PCS
G01966880	8528K4T415Q	DPST	25PCS

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Dimensions (mm) and Circuit Diagrams - 851x Types



	POS.1	POS.2	POS.3
SPDT			
	CIRCUIT DIAGRAM		
		OFF / NONE	
SPST	OFF	NONE	

Notes:
Diagram presented with Quick Connect ("15")

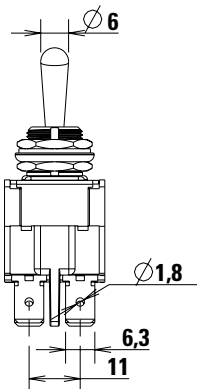
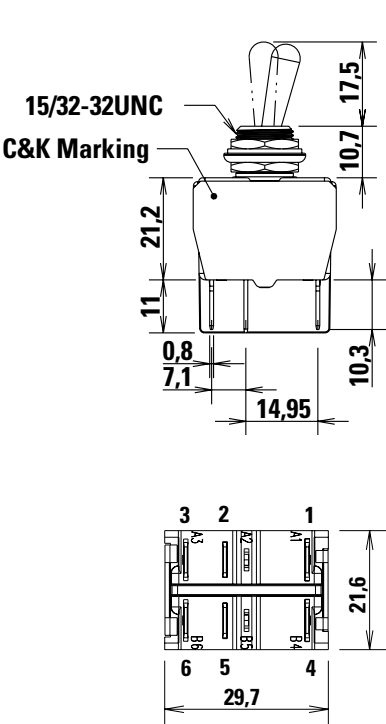
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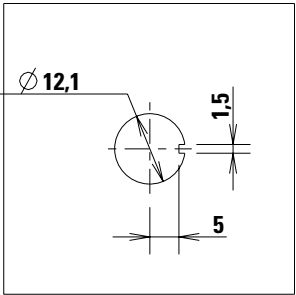
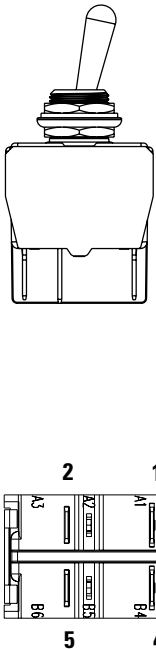


Dimensions (mm) and Circuit Diagrams - 852x Types

DPDT



DPST



	POS.1	POS.2	POS.3
DPDT			
	CIRCUIT DIAGRAM		
	2-3,5-6	OFF / NONE	2-1,5-4
DPST	OFF	NONE	

Notes:
Diagram presented with Quick Connect ("15")

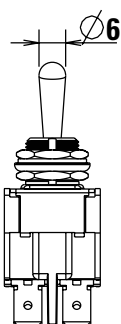
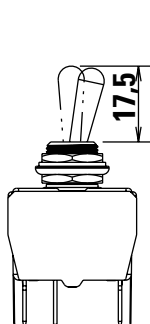
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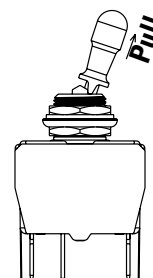
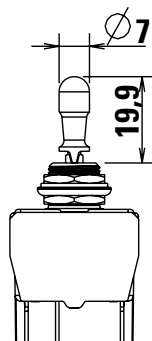


Actuators

L4



K4*

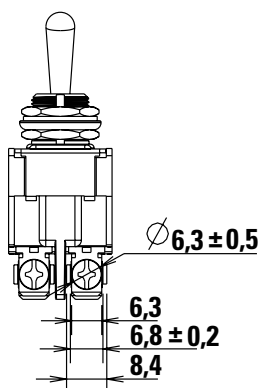
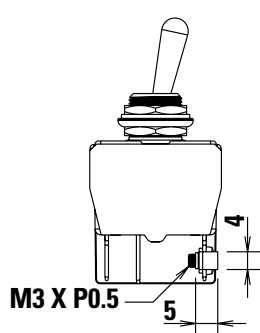


Notes:

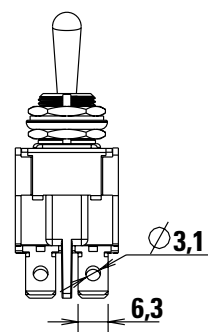
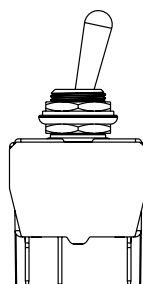
*K4 actuator only available for "852" electrical functions

Additional Termination options

Screw terminal "Z"



Solder "S"



Notes:

Quick Connect "15" is the preferred setup. All other options are only available on demand.

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