Keylocks Programmable Illuminated PB Pushbuttons

Electrical Capacity (Resistive & Inductive Load)

Power Level: Shown in the following tables

Other Ratings

Contact Resistance: 10 milliohms maximum

Insulation Resistance: 1,000 megohms minimum @ 500V DC

Dielectric Strength: 2,000 VAC minimum for 1 minute minimum for S800s & S800Ds

3.000V AC minimum for 1 minute minimum for S732

GENERAL SPECIFICATIONS FOR S800s ~ S732

Mechanical Life: 50,000 operations minimum

Electrical Life: 10,000 operations minimum for S800Ds 25,000 operations minimum for S800s & S732

Materials & Finishes

Toggle: Brass with nickel plating for S732

Brass with chrome plating for S800s & S800Ds

Bushing: Brass with chrome plating

Case: Phenolic resin for S732; melamine phenol for S800s

Case Cover: Steel with chromate plating over zinc plating

Movable Contactor Plate: Copper with silver plating

Movable & Stationary Contacts: Silver alloy capped on copper with silver plating

Common Terminals: Brass

Contact Terminals: Brass with silver or nickel plating

Environmental Data

Operating Temp Range: -10°C through +70°C (+14°F through +158°F)

Installation

Mounting Torque: 2.94Nm (26 lb•in) for double nut

Maximum Panel Thickness: Shown beneath panel cutout in switch dimension drawings

Standards & Certifications

UL: File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" to end of part number to order UL recognized switch. UL or cULus recognition designated beside part numbers on following pages.

See Supplement section to find UL or cULus rating details.

CSA: File No. 023535_0_000 - Certified only when ordered with marking on switch.

Add "/C" to end of part number to order CSA certified switch.

CSA certification designated beside part numbers on following pages.

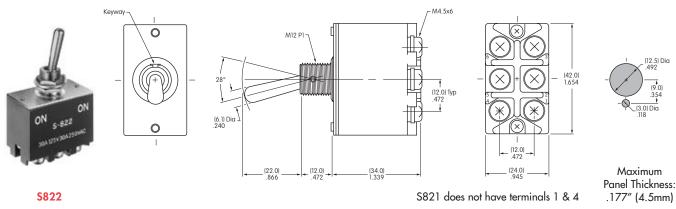
See Supplement section to find CSA rating details.

Indicators

Supplement | Accessories

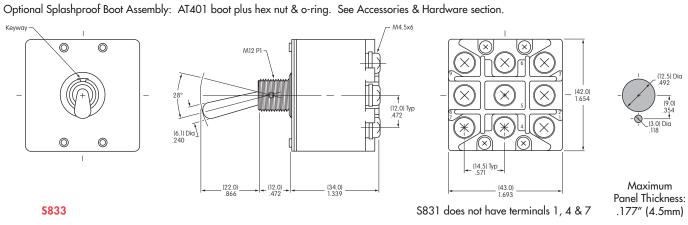
DOUBLE POLE WITH SCREW LUG * UL, cULus & CSA recognized only when ordered with marking on switch **Electrical Capacity** Toggle Position/Connected Terminals (see General Specs) Down Center Up Motor *Approvals Resistive Inductive Load Pole & AC AC 125V **AC 250V** AC 125V 250V 30V 125V PF 0.6 PF 0.6 125V Model Throw **S821 DPST** ON 2-3 5-6 NONE OFF 30A 30A 30A 30A 15A 750W 1A ON 2-3 5-6 NONE 2-1 5-4 **S822 DPDT** ON 30A 30A 30A 1A 30A 15A **S823 DPDT** OFF 2-1 5-4 ON 2-3 5-6 ON 30A 30A 30A 30A 15A (COM) DPDT Throw & **DPST** Note: Terminal numbers **Schematics:** are on the switch

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section. Optional Splashproof Boot Assembly: AT401 boot plus hex nut & o-ring. See Accessories & Hardware section.



	THREE POLE WITH SCREW LUG														
	ered wit	SA recogn h markin General S	g on s	nly when witch	Toggle Position/Connected Terminals					Electrical Capacity					
	*Approvals				Down		Center	Up			Resi	stive	Inductive		
Model	lR。	c 911 °us	(SP	Pole & Throw		Keyway¬	-		~	AC 125V	AC 250V	DC 30V	DC 125V	AC 125V PF 0.6	AC 250V PF 0.6
\$831	/	/	/	3PST	ON	2-3 5-6 8-9	NONE	OFF	_	30A	30A	30A	1A	30A	15A
S832	/	/	/	3PDT	ON	2-3 5-6 8-9	NONE	ON	2-1 5-4 8-7	30A	30A	30A	1A	30A	15A
\$833	/	/	/	3PDT	ON	2-3 5-6 8-9	OFF	ON	2-1 5-4 8-7	30A	30A	30A	1A	30A	15A
Throw &			3PST	3	9 2 6	5 • (COM) •	8	3PDT	3 • 1 6	/	(M) • 8	● 7	Note:	Terminal i	

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section. Optional Splashproof Boot Assembly: AT401 boot plus hex nut & o-ring. See Accessories & Hardware section.



DOUBLE POLE WITH SCREW LUG & FLATTED LEVER * UL, cULus & CSA recognized only when ordered with marking on **Toggle Position/Connected Terminals Electrical Capacity** switch (see General Specs) *Approvals Down Center Up Resistive Inductive L/R = 3ms Pole & Keyway 🥎 4 su**'!R**: *!*R; Model **Throw** 30V 48V 125V 250V 400V 24V 48V 125V 250V **S821D DPST** ON 2-3 5-6 NONE OFF 30A 30A 20A 15A 4A (10A) 15A 10A 3A 6A **S822D DPDT** ON 2-3 5-6 NONE ON 2-1 5-4 30A 30A 20A 15A 4A 15A 10A 6A 3A S823D DPDT ON 2-3 5-6 ON 2-1 5-4 30A 30A 7.5A 15A 10A 3A 15A 6A

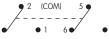
() capacity is due to wiring. Refer to instructions below.

Throw & **Schematics:**



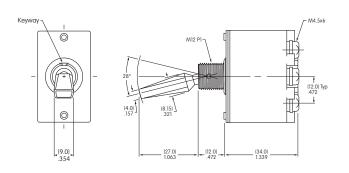




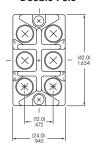


Note: Terminal numbers are on the switch

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.



Double Pole







S821D does not have terminals 1 & 4

Maximum Panel Thickness: .177" (4.5mm)

S822D

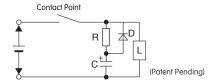
400V DC WIRING INSTRUCTIONS

1. DC Switch Use

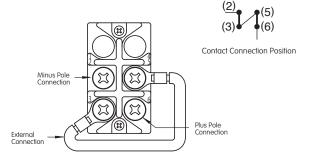
- Middle terminal shall be the minus pole when using DC circuit. Switch case is marked with (+) and (-).
- Do not store near (5cm) highly magnetic items.
- If actuation is interrupted when switching from ON to OFF, arcing may continue and switch could be burned.

3. Inductive Load

Inductive loads produce an arc caused by counter-electromotive force when opening the circuit. Recommend inserting spark elimination circuit. Contact factory for details.

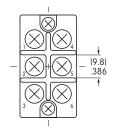


2. Wiring for DC400V 10A



4. Compressed Terminal Connection

When connecting screw terminal with compressed terminal, select compressed terminal using drawing below.

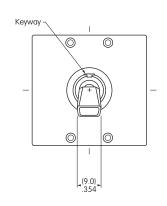


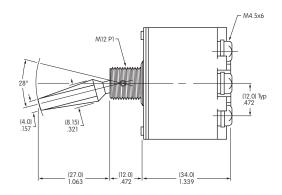


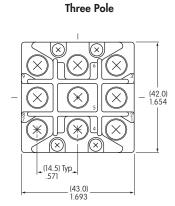
Touch

				THI	REE POLE WI	TH SC	REW LUG & F	LAT1	[ED	LEVE	R					
	ed with	A recogr markin eneral S	g on sv		Toggle Position/Connected Terminals				Electrical Capacity							
	*Approvals				Down	Center	Center Up		Resistive				Inductive L/R = 3ms			
Model	lR.	c 711° us	(1)	Pole & Throw	Keyway¬	-	~=	DC 30V	DC 48V	DC 125V	DC 250V	DC 24V	DC 48V	DC 125V	DC 250V	
\$831D	/	/	/	3PST	ON 2-3 5-6 8-9	NONE	OFF —	30A	30A	15A	7.5A	15A	10A	6A	3A	
S832D	/	/	/	3PDT	ON 2-3 5-6 8-9	NONE	ON 2-1 5-4 8-7	30A	30A	15A	7.5A	15A	10A	6A	3A	
S833D	/	/	/	3PDT	ON 2-3 5-6 8-9	OFF	ON 2-1 5-4 8-7	30A	30A	15A	7.5A	15A	10A	6A	3A	
Throw & Schematics	s:	3F	ST	3 • 2	5 (COM)	8	3PDT 3 • 1	5 •	(COM)	8	7	Note		ninal nun on the sv		

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.







S831D does not have terminals 1, 4 & 7. Positive (+) must be connected to end terminals & negative to common terminals.







Maximum Panel Thickness: .177" (4.5mm)



Keylocks Programmable Illuminated PB Pushbuttons

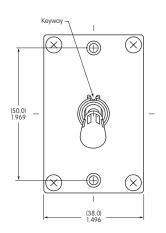
DOUBLE POLE WITH SCREW LUG

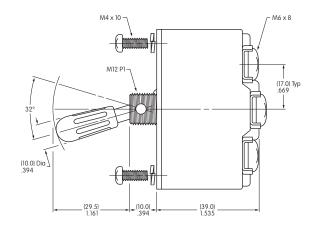
			Toggle Position/Connected Terminals					Electrical Capacity					
	Approvals		Down		Center	Up			Inductive				
Model	₽ U R.	Pole & Throw				~		AC 125V	AC 250V	DC 30V	AC 125V PF 0.6		
\$732		DPDT	ON	2-3 5-6	NONE	ON	2-1 5-4	50A	30A	50A	25A		

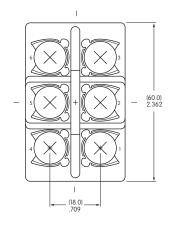
Throw & **Schematics:** DPDT

Note: Terminal numbers are on the switch

Notes: Standard Hardware: AT503M Face Hex Nut, AT506M Locking Ring, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.

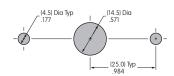






Cap of phenolic resin is black

Panel Mount with Mounting Screws



Maximum Panel Thickness: .158" (4.0mm)

Panel Mount with Bushing Hardware



Maximum Panel Thickness: .079" (2.0mm)



Maximum Panel Thickness: .118" (3.0mm)



Maximum Panel Thickness: .118" (3.0mm)



S732



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

\$832/U \$821/UC \$823/U \$821/CUL \$823/CUL \$823/CUL \$823/CUL \$823/CUL \$822/CUL \$823 \$833 \$831D\$

\$833/U \$823D \$832/C \$832 \$823/328 \$832D \$833 \$821D \$822/U \$822D/C \$822D \$821 \$732 \$822 \$831\$

\$821/U \$822/328 \$831/UC \$821D/U \$822D/U \$831/U \$822/C \$732/328 \$833/U-AT401H \$833/U-AT401S\$

\$833-AT401A \$833-AT401H \$833-AT401S \$832-AT401H \$832-AT401S \$833/CUL-AT401A \$833/CUL-AT401H \$833/CUL-AT401H \$833/CUL-AT401H \$833/CUL-AT401H \$833/CUL-AT401H \$832/C-AT401S \$832/U-AT401A \$832/U-AT401H \$832/U-AT401S \$832-AT401A \$831/UC-AT401H \$831/UC-AT401H \$831/UC-AT401H \$831/U-AT401A \$831/U-AT401H \$831-AT401H \$831-AT401H \$832/C-AT401A \$832/U-AT401H \$831/U-AT401A \$831/U-AT401H \$831/U-AT401A \$831/U-AT401A \$831/U-AT401A \$831/U-AT401A \$831/U-AT401B \$832/C-AT401B \$833/C-AT401B \$8