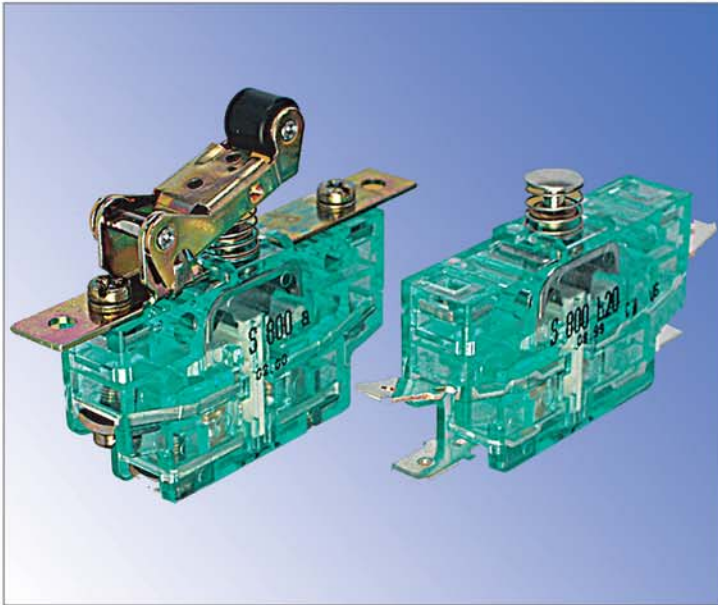


S800 SERIES SNAP-ACTION SWITCHES



S800 Series snap-action switches

The S800 is the original snap-action switch, introduced over 30 years ago and now used extensively as limit switches or safety switches. The forced contact mechanism, large contact surfaces and fast change over speed, enable relatively high loads to be reliably and safely handled. Because the make / break action is instantaneous, there is no possibility that contacts will chatter and cause transient signals or excessive pitting.

Applications:

- ▶ Limit switch for use on machine, door and plant controls
- ▶ Auxiliary switch in e.g. cam switches and control devices
- ▶ Electromechanical switching element for automation tasks with separate electric loads
- ▶ Safety limit switch in control panels and electrical installations

Features

- ▶ Performance in accordance with standards VDE 0660 part 200 (EN 60947-5-1)
- ▶ Positive opening operation
- ▶ High electrical load capacity
- ▶ Contact material: hard silver or gold alloy
- ▶ Slim, fast action switch
- ▶ 10 million mechanical operations
- ▶ Failsafe mechanism
- ▶ Excellent arc dissipation
- ▶ Permanent current 10 A

Technical Data

Series	S800	S802	S806
Conv. therm.current I_{th}	10A (16A max.)		
Utilization category	AC 15 230 V AC / 3.0A DC 13 110 V DC / 1.0A		
Impulse withst. voltage U_{imp}	4kV	4kV	4 kV
Pollution degree	3	3	3
Protection degree	IP40	IP40	IP40
Actuator force	3 N	3 N	3 N
Actuator travel	3.2mm	3.2mm	3.2mm
Contact type	NO + NC	NO	NC
Mechanical life	10 million operations		
Temperature range	-40°C ... +85°C		
Dimensions	50 x 28 x 12 mm		
Weight	20 ... 40g		

S800 ORDERING CODE

 Example: **S800 b 20/40**
Series / Contact type
S800 1 NC, 1 NO, 1 contact bridge

Auxiliary actuator styles

- a** roller lever and mounting brackets
- as** same as "a" with slotted holes
- b** pushbutton (standard)
- c** mounting brackets
- d** "a" and angled mounting brackets
- e** roller lever only

Terminals

- none** screw with saddle clamp
- 20** flat quick-connect 6.3mm x 0.8mm
- 21** double faston terminals
- 22** without terminal screws
- 24** 90 quick connect terminals
- 30** screw with flat washer

Actuating and release forces

- none** standard: 3.3 N max. /0.2 N min.
- 40** 5.5 N max. /2.9 N min stronger return spring
- 41** stronger return spring and snap spring

Protective housing

- SK-100** Protective housing made of fibre glass reinforced PC
- SK-200** Protective cover made of flexible soft PVC
- SK-400** Protective cap without blowout
- SK-400-B** Protective cap as blowout device

Annotation

S814 Series snap-action switches do not feature positive opening operation but come with wiping, self-cleaning contacts which ensure high reliability even with low electric loads.

 Example: **S804 b 40**
Series / contact type
S804 1 NC, 1 NO, 1 contact bridge

Actuator
b pushbutton (standard)

Terminal
none screw with saddle clamp

Actuating and release forces

- none** standard: 3.3 N max. /0.2 N min.
- 40** stronger reset spring: 5.5N max. /2.9N min.

 Example: **S814 b 10/40**
Series / contact type
S814 1 NC, 1 NO, 1 contact bridge

Actuator
b pushbutton (standard)

Contact material

- none** hard silver (AGCu3)
- 10** gold alloy (AuAg26Ni3)

Terminal
none screw with saddle clamp

Actuating and release forces

- none** standard: 3.2N max. / 0.5N min.
- 40** stronger reset spring: 5.2N max. /2.0N min.

 Example: **S820 b LS**
Series / contact type
S820 1 NC, 1 NO, 2 contact bridges
 form Z SPDT (DB-DM)

Auxiliary actuator styles

- a** roller lever and mounting brackets
- b** pushbutton (standard)
- e** roller lever only

Magnetic blowout
LS strong blowout magnets