

Snap-Action Switches

S800, S804, S814, S820 series

Changeover switches with double-break contacts and positive opening operation

Catalogue D20.en



Snap-action switches, S800, S804, S814, S820 series

Featuring double-break contacts and positive opening operation

S800 and S804 series – application proven snap switches

S800 and S804 series switches feature a VDE approved positive opening operation which guarantees - within the requirements of the standard - the forced opening of contacts that have become welded together after a short-circuit. This makes them ideally suited for use in all safety related applications.

S814 series

The S814 has a plunger running through the switch. This makes it possible to mount two switches on top of each other, and trigger two operations with only one actuation. Wiping contacts ensure high contact reliability over the life of the switch.

S820 - snap switches featuring higher ampacity

S820 series switches add to the well proven standard products, offering a current-carrying capacity which is twice as high ($l_{th} = 20$ A) as for example S800, as well as a more ruggedized design making them best suited for use under unfavourable ambient conditions which call for higher shock and vibration resistance. A typical field of application is medium-voltage switchgear and controlgear.

The S820 is a Form Zb SPDT-DB switch with double-break contacts. Its two mechanically linked rigid contact bridges are galvanically isolated, thus ensuring the failsafe closing of two separate load circuits with independent voltage levels.

Features



Positive opening operation: Reliable breaking of the normally closed (NC) circuit even if the contacts have become welded together, in compliance with IEC 60947-5-1, Annex K (except for S814).



Double-break contacts: High electrical rating due to rigid contact bridge



Precision switch: High switching accuracy and resistance to shock and vibration

IP rating: Protection against dust, hazardous substances and direct contact with live parts in compliance with IEC 60529: Contacts IP40 / Terminals IP00

Contact material: S800 and S814: Silver or Gold S804 and S820: Silver

Blowouts: Optional magnetic blowout to ensure efficient quenching of electric arcs and high DC switching capacity



Design and function

Actuators Mounting styles Contacts Terminals

S800/S804/S814/S820 series

S800/S804/S814/S820 series

- Standard: Pushbutton
- Aux. actuator: roller lever
- Front mount
- Side mount (ganging)
- Double-break contacts and rigid contact bridge
- Positive opening operationContact material: silver or gold
- M3 screws with saddle clamp
- Flat tabs 6.3x0.8
- M3 screws with spring washer

Competence

Applications

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S800/S804/S814/S820 series

The success of a product is owed to its quality

The Schaltbau product line is clearly defined and keeps up with the technological requirements of today's markets. Behind every individual snap-action switch you will find decades of experience in engineering and manufacturing. Snap-action switches are designed with a snap-mechanism that allows fast switching, largely independent of the actuation speed. This precisely reproduces the operating position, and controls the arc more efficiently. With their well known transparent-green housing, the safety function in Schaltbau's snap-action switches is visible. Schaltbau snap-action switches are typically used with systems and components that require a high degree of safety and reliability, such as:

- Limit switches for machine, door and plant control systems
- Aux. switches in cam gear and control and indicating devices
- Switching elements for automation
- Safety limit switches for control systems and plant controls

Specifications

	Standard	S800, S804	S814	S820
Contact configuration SPDT-DB switch, contact bridge: rigid (Form Za) galvanically isolated (Form Zb)	IEC 60947	•	•	•
Positive opening operation Wiping action		•	•	•
Conv. thermal current I _{th}	IEC 60947	10 A at T = 85° C	10 A at T = 85° C	20 A at T = 85° C
Rated insulation voltage U _i	IEC 60947	400 V	250 V	400 V
	UL 508 IEC 60947	300 V *1 PD3	 PD3	 PD3
Pollution degree	UL 508	D3 *1		
Rated impulse withstand voltage U _{imp}	IEC 60947	4 kV	2.5 kV	4 kV
Overvoltage category	IEC 60947	OV3	OV3	OV3
over voltage category	UL 508	V3 *1		
Utilization category	IEC 60947	AC-15: 230 V / 3.0 A DC-13: 110V / 1.0 A	AC-15: 230 V / 1.0 A DC-13: 60V / 0.5 A	AC-15: 230 V / 5.0 A DC-13: 110V / 1.0 A
for silver contacts *2	UL 508 *1	240 V AC, 8 A		
Contact gap, typ.		general purpose 2x 1.2 mm	2x 0.4 mm	2x 2.0 mm
Contact force, typ.		0.35 0.75 N	0.4 N	1.2 N
Contact resistance, typ.		1	00 mΩ (no leads connecte	ed)
Positive opening force *3	IEC 60947	35 N		35 N
Actuator travel for positive opening	IEC 60947	S800: see page 5 S804: see page 9		see page 13
Maximum actuator travel *3	IEC 60947	3,2 mm	2,0 mm	4,0 mm
Actuating speed	IEC 60947	max. 1 m/s min. 1 mm/s	max. 240 mm/s min. 0,1 mm/s	max. 1 m/s min. 1 mm/s
Vibration resistance, no aux. actuator, at 0.1 ms max. opening time 10 150 Hz 10 500 Hz	IEC 60068-2-6	30g, all directions 	20g, all directions 	 50g, all directions
Shock resistance, no aux. actuator, at 0.1 ms max. opening time	IEC 60068-2-27	80 g, half sinus	50 g, half sinus	60 g, half sinus
Short-circuit protection for silver contacts *2	IEC 60269-2	6 A gR		6 A gR
Operating frequency, max.	IEC 60947	465 cycles/min	300 cycles/min	80 cycles/min
Actuating force *3 Standard / reinforced	IEC 60947	3.3 N / 5,7 N	3.2 N / 5,2 N	8N / 18N
Release force *3 Standard / reinforced	IEC 60947	0.2 N / 2.9 N	0.5 N / 2.0 N	1.5 N / 2.0 N
IP rating Contacts Terminals	IEC 60529		IP40 IP00	
Mechanical endurance, cycles	IEC 60947	10 milli	ion min.	1 million min.
Temperature range	IEC 60947		-40 °C +85 °C	
Material Contacts Terminals Housing		Brass, silver o	or gold (AuAg26Ni3) or gold plated n, transparent	Hard silver (AgCu3) Brass, silver-plated PES, amber, transparent
Mounting orientation			any	
Weight, no aux. actuator		S800: 26 g / S804: 25 g	25 g	45 g
Approvals			EAC	



S800/S804/S814/S820 series



S800 b20 Version with pushbutton (standard), silver contacts and flat tabs 6.3 x 0.8



S800 aL Version with roller lever, mounting brackets, silver contacts, M3 screws with saddle clamp and blowouts



S800 e20 Version with roller lever, silver contacts and flat tabs 6.3 x 0.8



S804 b Version with pushbutton (standard), silver contacts and M3 screws with saddle clamp



S814 b Version with pushbutton (standard), silver contacts and M3 screws with saddle clamp

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S820 a7 Version with roller lever, mounting brackets, silver contacts and M3 screws with saddle clamp

*1 \$800 only

*2 S800, S814 only: data for gold contacts on request

*3 Measured next to actuator

Note: Data valid for new switches under laboratory conditions and at room temperature, unless otherwise mentioned.

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minimum quantities apply. Please ask for the conditions.

. If you need a special variant of the switch, please do not hesitate to contact us. Maybe the type of switch you are

looking for is among our many special designs. If not, we can also supply customized designs. In this case minimum

Special variant:

quantities apply. * No index S800 series

Ordering		Example:	S800 b10/2	20/40 L		
Series, Cor	ntact configuration		T	Ţ Ţ ┖──	Special desig	ıns, optional
S800		B switch with positive opening			Blowouts	L
	operation and r	igid contact bridge			Actuating and re	elease forces
Actuator a	nd mounting style	s			Standard	*
	Actuator	Front mount			Stronger reset spring	40
b	Pushbutton	no mounting brackets				Terminals
с	Pushbutton	with mounting brackets			M3 screws with saddle clamp	*
e	Roller lever	no mounting brackets			Flat tabs 6.3x0.8	20
а	Roller lever	with mounting brackets				
as	Roller lever	with mounting brackets, slotted holes				
d	Roller lever	with mounting brackets, angled on one end				
Contact m	aterial					
*	Silver				ote:	
10	Gold			(1)	nis cataloque shows only stock items. For so	

Accessories

SK-100	Protective housing (half shells) made of PA6
SK-200	Protective cover made of flexible soft PVC
SK-400	Protective cap made of glass fibre reinforced PC

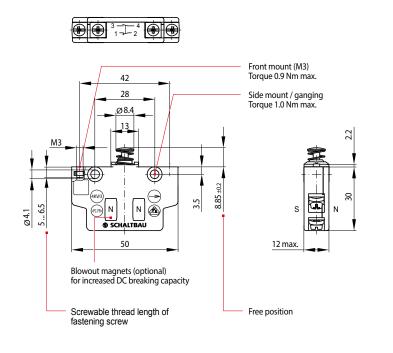
	Code	Version
IP rating: contacts / terminals		IP40/20
Actuator styles		
 Pushbutton (standard) No mounting brackets 	b	© [™] © ► ₽ <mark>₽</mark> ₽₽
 Pushbutton with mounting brackets 	C	
 Roller lever No mounting brackets 	e	
 Roller lever with mounting brackets 	a	
 Roller lever with mounting brackets, slotted holes 	as	
 Roller lever with mounting brackets, angled on one end 	d	
 Series Contact material Actuating and release force Blowouts (special design) 	5800 * / 10 * / 40 L	
Terminal styles		
M3 screws with saddle clamp	*	
Flat tabs 6.3x0.8	20	
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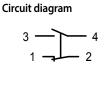
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S800 series

Dimension and circuit diagrams

Dimensions S800 b Form Za SPDT-DB switch •







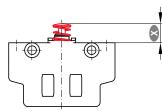
S800

Form Za SPDT-DB switch with positive opening operation, silver or gold contacts and rigid contact bridge

S800 **b** Pushbutton (standard)

Actuator styles and positions

S800 Pushbutton (standard) **b**/**c** •



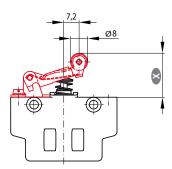


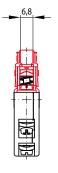
Actuator positions	Pushbutton (standard) b / c Dimension 🕥 in mm
Free position	8.85 ± 0.20
Operating position	6.60 ± 0.35
Release position	7.80 ± 0.35
Total positive opening travel	5.85
Total travel position	5.65
Movement differential (between operating and release position)	1.2 (typical)



Note: To ensure proper operation of the positive opening function it is necessary to depress the plunger to the point of total positive opening travel. However, it must not be pushed beyond total travel position. Data is valid for new switches.

S800 Roller lever e / a / as / d •





Actuator positions	Roller lever e / a / as / d Dimension 👁 in mm
Free position	20.25 ± 0.35
Operating position	16.60 ± 0.50
Release position	18.40 ± 0.50
Total positive opening travel	13.6
Total travel position	13,3
Movement differential (between operating and release position)	1.8 (typical)



Note: To ensure proper operation of the positive opening function it is necessary to depress the plunger to the point of total positive opening travel. However, it must not be pushed beyond total travel position. Data is valid for new switches.

S800 series

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S800 series

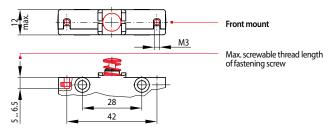
Mechanical fastening Front mount, ganging

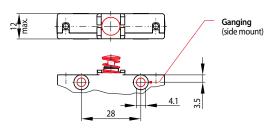
Front mount

- No mounting brackets: By way of the nut retainers (M3) that are inserted into the switch housing. Torque 0.9 Nm max.
- With mounting brackets: By way of M3 screws for all actuator styles. Torque 0.9 Nm max.

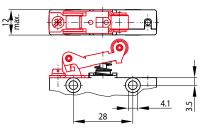
Actuators without mounting brackets

• Pushbutton (standard) style b





• Roller lever style e

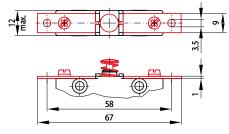


Ganging

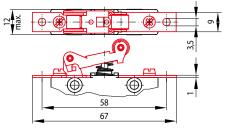
- Through the transversal bore holes with 4 mm screws or bolts. Torque 1.0 Nm max.
- Alternatively DUO clips or retaining rings can be used.

Actuators with mounting brackets

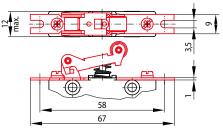
• Pushbutton style c



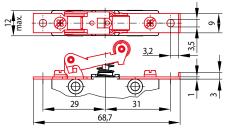
• Roller lever style a



• Roller lever style as

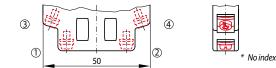


• Roller lever style d



Terminal styles M3 screws, flat tabs 6.3x0.8

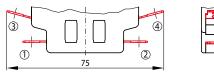
• M3 screws with saddle clamp (standard) style 💌



(i) Note:

- Single and multiple-wire conductors with wire gauges AWG 18... 12 (0.75 mm²... 2.5 mm²) can be clamped without wire end ferrules. If a ferrule is used the maximum wire gauge is AWG 14 (1.5 mm² max.)
 - Max. 2 conductors with the same wire gauge can be clamped per terminal.
 - Tightening torque of terminal screws should be 0.9 Nm max.
 - IP rating: contacts IP00 / terminals IP40

• Flat tabs 6.3x0.8 style 20





S800 series

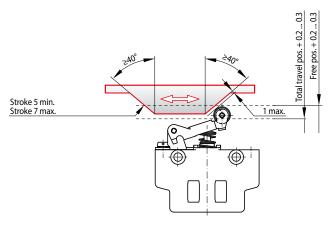
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Instruction on when to use a roller lever (examples)

Snap-action switches are designed for actuation with and without roller lever. A roller lever is required, if the direction of actuation deviates more than $\pm 15^{\circ}$ from the perpendicular line.

Switch with roller lever actuated by cam disk Ø Y .0.3 0.3 travel pos. + 0.2. Free pos. + 0.2 . Stroke 5 min. Total Stroke 7 max 1 max. C Cam disk Ø Clearance 🕥 Œ (\oplus) 40 mm 3.6 mm 60 mm 0 mm 100 mm (max.) 0 mm

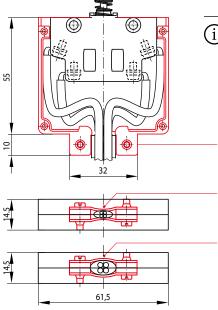
Switch with roller lever actuated by trigger cam



Protective housing SK-100, SK-200, SK-400, SK-400-B

SK-100

Protective housing (half shells) made of fibre glass reinforced PC. Screwtype terminals of switches used with protective housing SK-100 are sealed to IP40.



j Note: For use with screw-type terminals (M3 screws) only.

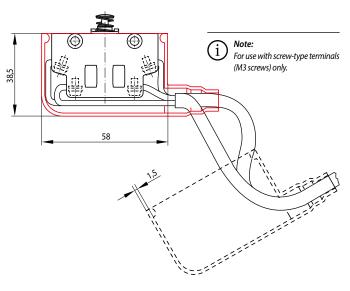
> Strain relief Bore hole for cable clamp

Cable clamp: for cable diameter 5 ... 8 mm Retention force: 80 N min.

Cable clamp: for cable diameter 8 ... 10.9 mm Retention force: 80 N min.

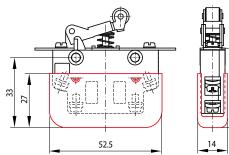
SK-200

Protective cover made of flexible soft PVC. Protective cover SK-200 prevents accidental contact with the 4 live M3 screw terminals.





Protective cap made of fibre glass reinforced PC. Protective cap SK-400 prevents accidental contact with the 4 live M3 screw terminals.



Subject to change / Dimensions in mm



Protective caps Protective cap SK100, SK200 and SK400, from left to right

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S800 series

S800 series

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S804 Ordering code

S804 series

		Example:	S804 b40
Series, Con S804	tact configuration		
	Form Za SPDT-DB switcl positive opening opera		
Actuator ar	nd mounting styles —		
b	Pushbutton		
Actuating a	and release force		
*	Standard		

40 Stronger reset spring

(i) Note: This ca

This catalogue shows only stock items. For some variants minimum quantities apply. Please ask for the conditions. **Special variant:**

If you need a special variant of the switch, please do not hesitate to contact us. Maybe the type of switch you are looking for is among our many special designs. If not, we can also supply customized designs. In this case minimum quantities apply.

* No index

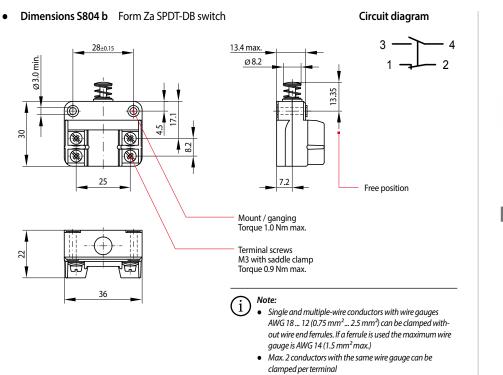
Parameter	Code	Version
IP rating: contacts / terminals		IP40/20
Actuator style		
Pushbutton (standard)	b	
 Series Actuating and release force 	5804) * / 40	
Terminal style		
M3 screws with saddle clamp	*	
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S804 series

S804 series

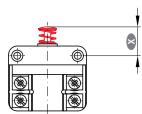
Dimension and circuit diagrams



• IP rating: contacts IP00 / terminals IP40

Actuator styles and positions

• S804 Pushbutton (standard) **b**





Actuator positions	Pushbutton (standard) b Dimension 🕥 in mm
Free position	13.35 ± 0.15
Operating position	11.10 ± 0.35
Release position	12.30 ± 0.35
Total positive opening travel	10.35
Total travel position	10.15
Movement differential (between operating and release position)	1.2 (typical)



Note: To ensure proper operation of the positive opening function it is necessary to depress the plunger to the point of total positive opening travel. However, it must not be pushed beyond total travel position. Data is valid for new switches.



S804

Form Za SPDT-DB switch with positive opening operation, silver contacts and rigid contact bridge

S804 **b** Pushbutton (standard)

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S814 series

S814 Ordering code

S814 b10/40 Example: T Series, Contact configuration S814 Form Za SPDT-DB switch with rigid contact bridge Actuator style b Pushbutton **Contact material** * Silver 10 Gold Actuating and release force * Standard Stronger reset spring 40 Note: (i)

This catalogue shows only stock items. For some variants minimum quantities apply. Please ask for the conditions. Special variant:

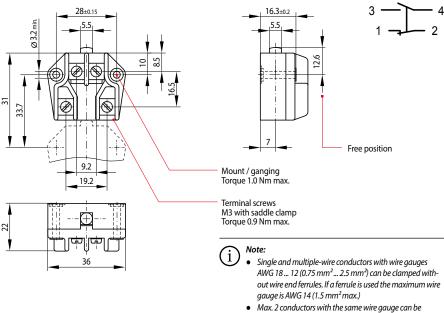
If you need a special variant of the switch, please do not hesitate to contact us. Maybe the type of switch you are looking for is among our many special designs. If not, we can also supply customized designs. In this case minimum quantities apply.

* No index

Parameter	Code	Version
IP rating: contacts / terminals		IP40/20
Actuator style		
 Pushbutton (standard) 	b	
 Series Contact material Actuating and release force 	5814) *)/10 *)/40	
Terminal style		
M3 screws with saddle clamp	<u> </u>	
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Dimension and circuit diagrams

• Dimensions S814 b Form Za SPDT-DB switch



Max. 2 conductors with the same wire gauge can license clamped per terminal

Circuit diagram

• IP rating: contacts IP00 / terminals IP40

S814 series

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Form Za SPDT-DB switch with silver or gold contacts, rigid contact bridge and wiping action

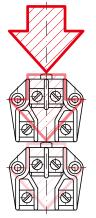
S814 **b** Pushbutton (standard)

S814

Plunger travelling full length throug the switch

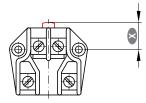
A special feature of the S814 is its plunger which, on actuation travels the full-length of the switch. This makes them ideally suited for applications where the switching element must be in line with the perpendicular line of actuation. It is thereby possible to mount two S814 switches on top of each other and trigger two switching operations with only one actuation, like a full-blown dual changeover switch.

For this reason they are especially suited for use as emitter switches for meters and counters, for use with indicating devices, master controllers and control units and, last but not least, as switching elements for membrane switches.



Actuator styles and positions

• S814 Pushbutton (standard) **b**





Actuator positions	Pushbutton (standard) b Dimension 🕥 in mm
Free position	12.6 ± 0.2
Operating position	11.6 ± 0.2
Release position	12.1 ± 0.2
Total travel position	10.6
Movement differential (between operating and release position)	0.5 (typical)



Note: Actuator must not be

Actuator must not be pushed beyond total travel position. Data is valid for new switches.. S814 series

S814 series

DC Power Under Control

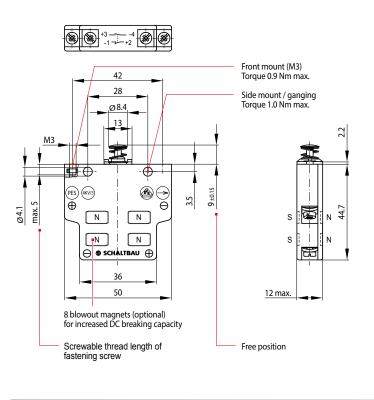
S820 Ordering code S820 series S820 b7/40 L Example: J Series, Contact configuration Special design, optional S820 Blowouts L Form Zb SPDT-DB with positive opening operation and galvanically isolated contact bridges Actuating and release force Standard Actuator styles Stronger reset spring 40 Actuator style Mounting style b Pushbutton No mounting brackets e **Roller** lever No mounting brackets Roller lever With mounting brackets а **Contact material** Note: Silver (Fixed contact AgCu3 / contact bridge AgSnO2) (i) 7 This catalogue shows only stock items. For some variants minimum quantities apply. Please ask for the conditions. Special variant: If you need a special variant of the switch, please do not hesitate to contact us. Maybe the type of switch you are looking for is among our many special designs. If not, we can also supply customized designs. In this case minimum quantities apply. * No index

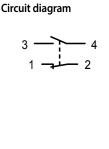
Parameter	Code	Version
IP rating: contacts / terminals		IP40/20
Actuator styles		
Pushbutton (standard), no mounting brackets	b	
 Roller lever, no mounting brackets 	e	
 Roller lever, with mounting brackets 	a	
 Series Contact material Actuating and release force Blowouts (special design) 	5820 7 40 L	
Terminal style		
M3 screws with saddle clamp	*	
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Dimension and circuit diagrams

• Dimensions S820 b Form Zb SPDT







S820

Form Zb SPDT-DB with silver contacts, positive opening operation and galvanically isolated contact bridges

S820 **b** Pushbutton (standard)

Actuator styles and positions

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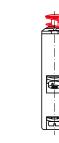
• S820 Pushbutton (standard) **b**

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PES (4KV/3)

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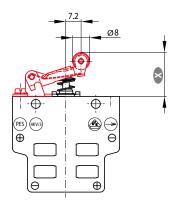


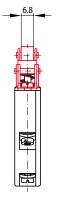
Pushbutton (standard) b Actuator positions Dimension 🗶 in mm Free position 9.0 ± 0.15 Operating position 6.0 ± 0.35 **Release** position 8.0 ± 0.35 Total positive opening travel 5.2 Total travel position 5.0 Movement differential 2.0 (between operating and (typical) release position)

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Note: To ensure proper operation of the positive opening function it is necessary to depress the plunger to the point of total positive opening travel. However, it must not be pushed beyond total travel position. Data is valid for new switches.

•	S820 Roller lever	e ,[а
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Actuator positions	Roller lever e, a Dimension 🗭 in mm
Free position	20.4 ± 0.35
Operating position	15.6 ± 0.5
Release position	18.85 ± 0.5
Total positive opening travel	13.1
Total travel position	12.9
Movement differential (between operating and release position)	3.25 (typical)



Note: To ensure proper operation of the positive opening function it is necessary to depress the plunger to the point of total positive opening travel. However, it must not be pushed beyond total travel position. Data is valid for new switches.

Subject to change / Dimensions in mm

S820 series

S820 series

DC Power Under Control

S820 series

Mechanical fastening Front mount, ganging

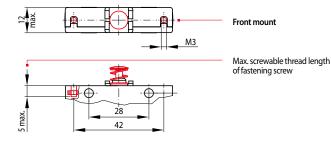
Front mount

12 Max

- No mounting brackets: By way of the nut retainers (M3) that are inserted in the housing of the switch. Torque 0.9 Nm max.
- With mounting brackets: By way of M3 screws for all actuator styles. Torque 0.9 Nm max.

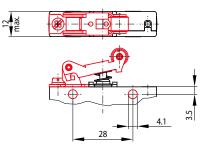
Actuators without mounting brackets

• Pushbutton (standard) no mounting brackets style b



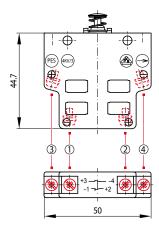
Ganging (side mount)

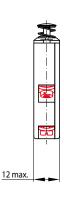
• Roller lever without mounting brackets style e



Terminal style M3 screws

• M3 screws with saddle clamp (standard) style *





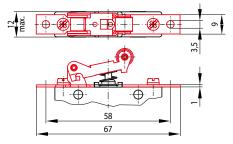
* No index

Ganging

- Through the transversal bore holes with 4 mm screws or bolts. Torque 1.0 Nm max.
- Alternatively DUO clips or retaining rings can be used.

Actuators with mounting brackets

• Roller lever with mounting brackets style a



S820 series

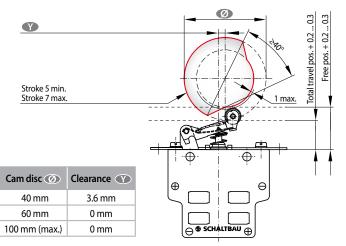


- Single and multiple-wire conductors with wire gauges AWG 18 ... 12 (0.75 mm²... 2.5 mm²) can be clamped without wire end ferrules. If a ferrule is used the maximum wire gauge is AWG 14 (1.5 mm² max.)
 - Max. 2 conductors with the same wire gauge can be clamped per terminal.
 - Tightening torque of terminal screws should be 0.9 Nm max.
 - IP rating: contacts IP00 / terminals IP40

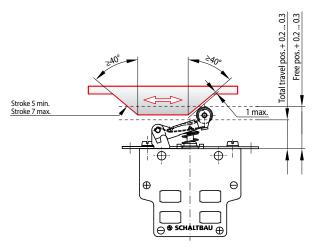
Instruction on when to use a roller lever (examples)

Snap-action switches are designed for actuation with and without roller lever. A roller lever is required, if the direction of actuation deviates more than $\pm 15^{\circ}$ from the perpendicular line.

• Switch with roller lever actuated by cam disk



Switch with roller lever actuated by trigger cam



Mounting and safety instructions, environmental conditions, standards

Mounting instructions:

- Snap-action switches should be mounted by qualified professional staff only.
- Observe the required clearance and creepage distances. This is also true for connected wires.
- It is necessary to use insulating plates when ganging or mounting switches on uninsulated surfaces.
- The switches can be mounted in any desired position.
- When mounting the switches mechanically make sure to have 2 fastening elements (e.g. screws).
- Only use adequate fastening elements such as cylinder head or collar screws or DUO-clips, including washers. When fastening make sure not to exceed the maximum tightening torque.
- When mounting switches with mounting brackets make sure that the mounting surface is level.
- Avoid tilting the screw when mounting and prevent mechanical tension on the housing.
- The actuator may not be pre-tensioned when in the free position. When actuated, the actuator should travel well beyond the operating position, for at least 50% of the predefined overtravel, all the way to total travel position.
- To ensure the proper function of the positive opening operation it is necessary to depress the plunger to the total travel position.
- To prevent mechanical destruction of the switch, make sure that actuation of the switch does not exceed the specified total travel position. Avoid using the switch as a mechanical end stop.
- High-impact actuation of the switch can also have a negative effect on its mechanical life.
- When securing stripped wire ends in the terminal clamp, make sure the wire insulation is flush with the clamp.
- Make sure that strain relief of the connected leads functions.
- Prevent a transfer of forces to the switch terminals.
- When using versions with blowout magnets observe the right polarity, see circuit diagram at the bottom of the switch.

Non-permissible environmental conditions:

- Cleaning agents, adhesives, solvents, or screw-retaining varnish must be compatible with polycarbonate (S800, S804, S814 series) and polyethersulfone (S820 series), respectively. Never use chemicals not compatible with polycarbonate for S800, S804 and S814 series switches and polyethersulfone for S820 series switches, respectively.
- Using chemicals which are not compatible can result in cracks, deformation, breakage and dissolution of the housing or complete destruction of the switch.

Safety instructions:

- Be sure to make visual inspections regularly.
- Improper handling of the switch, e. g. when hitting the floor with some impact, can result in breakage, visible cracks and deformation.
- The switch suitability has to be confirmed by the customer for the specific application, and under application conditions.

Defective parts must be replaced immediately!

For detailed maintenance, safety and mounting instructions please refer to our operating manuals:
 <u>schaltbau.info/safety2en</u>!

Standards:

- IEC 60947-5-1: Low-voltage switchgear and controlgear, Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
- IEC 60947-5-1, Annex K: Special requirements for control switches with direct opening action
- UL508: Industrial control equipment
- IEC 60529: Degrees of protection provided by enclosures (IP Code)
- UL 94V-0: Flammability Standard
- DIN 41636-6: Dimensions correspond to type F as defined by the standard
- **DIN 40050-9:** Road vehicles; degrees of protection (IP code); protection against foreign objects; water and contact; electrical equipment
- DIN 46244: Tabs for receptacles

Schaltbau GmbH

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IRIS Certification The production facilities of

Schaltbau GmbH have been IRIS

certified since 2008.



Certified to DIN EN ISO 14001

since 2002. For the most

recent certificate visit

our website.



Certified to DIN EN ISO 9001 since 1994. For the most recent certificate visit our website.

Electrical Components and Systems for Railway Engineering and Industrial Applications

Connectors	 Connectors manufactured to industry standards
	 Connectors to suit the special requirements of communications engineering (MIL connectors)
	 Charging connectors for battery-powered machines and systems
	 Connectors for railway engineering, including UIC connectors
	 Special connectors to suit customer requirements
Snap-action switches	 Snap-action switches with positive opening operation
	 Snap-action switches with self-cleaning contacts
	 Snap-action switch made of robust polyetherimide (PEI)
	 Snap-action switch with two galvanically isolated contact bridges
	 Special switches to suit customer requirements
Contactors	 Single and multi-pole DC contactors
Emergency disconnect switches	 High-voltage AC/DC contactors
	 Contactors for battery powered vehicles and power supplies
	 Contactors for railway applications
	Terminal bolts and fuse holders
	 DC emergency disconnect switches
	 Special contactors to suit customer requirements
Electrics for rolling stock	 Equipment for driver's cab
	 Equipment for passenger use
	 High-voltage switchgear
	 High-voltage heaters
	 High-voltage roof equipment
	 Equipment for electric brakes
	 Design and engineering of train electrics
	to customer requirements

