AH HW **Switching operation** Slow-action **Snap-action** Slow-action **Snap-action** 6041171164 6041185173 6041135019 6041121010 1 NC / 1 NO contact D-SU1 HW D-SU1 AH D-U1 AH D-U1 HW 6041835107 2 NC contacts D-A2 AH 2 NO contacts 1 NC / 1 NO contact 6041321142 Overlapping D-UV1Z HW (W) **®** (W) Approvals Replacement actuator: 3914350924 Replacement actuator: 3914211065 Special features / variants Special features / variants

(on request)

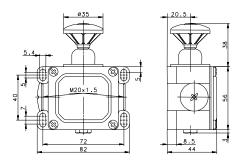
- With steel roller, various roller diameters
- Cranked or straight lever
- Different lever lengths
- Also available with following contacts:
 3 NC contacts
 2 NC / 2 NO contact

(on request)

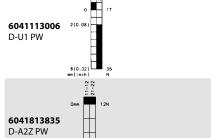
- Available for high temperature range
- With following contacts:
 3 NC contacts
 2 NC / 2 NO contact (larger enclosure)

BERNSTEIN

PW







@ @

Replacement actuator: -

Special features / variants

(on request)

Also available with following contacts:
 3 NC contacts
 3 NO contacts
 2 NC / 2 NO contact
 (larger enclosure)

Overview of Actuators

Actuator	Designation	Collar iw = internal w = external	Plastic so COMBI		188	BIGGY 2	ENK	Metal : GC I	series SN 2	ENM 2	DI
Plunger	-	iw	-	-	-	-	•	-	-	-	-
	-	W	-	•	•	•	-	-	-	-	-
	-	IP 30	•	-	-	-	-	-	-	-	-
	-	IP 43	-	-	-	-	-	-	-	-	0
Ball Mushroom head	KU P	iw	-	-	-	_	-	0	0	0	-
Musnroom nead Telescopic plunger	L	w iw	-	-	-	-	-	-	-	-	•
Adjustable plunger	ST	w	_	_	_	_	_		0	0	•
Plunger	ST	iw	_	_	_	_	_	•	0	0	-
i lunger	ST	IP 30	•	_	_	_	_	_	_	-	_
Button	K	IP 30	•	-	-	-	-	_	_	-	_
Roller	R	IP 30	•	-	-	-	-	-	-	-	-
	R	iw	-	•	0	•	•	•	•	•	-
		w	-	-	-	-	-	-	-	-	•
		IP 43	-	-	-	-	-	-	-	-	0
Roller, long	R L	iw	-	0	•	0	-	-	-	-	-
Roller, short	R K	iw	-	0	•	0	-	-	-	-	-
Lever	Н	IP 30	•	-	-	-	-	-	-	-	-
	Н	w	-	•	•	•	•	-	-	-	-
	H, HT	iw	-	-	-	-	-	•	0	0	-
Lever, long	H/D-WI	w	-	-	-	-	-	•	•	0	•
	HL	iw	-	-	-	-	-	•	0	0	-
	HL/D-H D – H	w IP 43	-	-	-	-	-	•	0	0	•
Direct is int Joven	D-H DGH		-	0	-	0	0	0	-	-	-
Pivot joint, lever	DGH	W	-	O	·	O	O	O		•	-
Pivot joint, cranked lever	DGK	W	-	0	•	0	0	0	•	•	-
Cranked lever	KN	iw	-	-	-	-	-	•	0	0	-
	KN	w	-	0	•	0	-	•	0	0	0
Cranked lever link	KG	iw	-	-	-	-	-	•	0	0	-
	KG	W	-	0	•	0	-	•	0	0	-
Double roller	DR	iw	-	-	-	-	-	•	0	0	-
Spring feeler	FF	iw	_							0	_
Spring feeler	FF FF	W W	_	•	-	•	•	_	-	-	_
Spring feeler, long	FFL	w	_	-	-	_	-	•	0	0	_
	_							-			
Spindle-mounted lever	AH	iw	-	•	•	•	-	•	0	0	•
Spindle-mounted lever, star clamping	AHS	iw	-	•	•	•	-	0	•	0	-
Spindle-mounted lever, fine spline	AHS-V	iw	-	-	-	-	•	0	•	•	-
Spindle-mounted lever for positive opening	AHZ	iw	_	_	_	_	_	0	0	•	_
in forward / return direction		IVV	_	_	_	_	_	0			_
Spindle-mounted lever, adjustable	AV	iw	-	•	•	•	•	•	0	•	•
Spindle-mounted lever, wire	AD	iw	-	•	•	•	•	•	0	•	0
Spindle-mounted lever, spring	AF	iw	-	0	•	0	0	•	•	0	-



Planager	Metal A 20 20 10 5 -										
Metal	Metal A 20 20 10 5 - Platic B 30 5 - - Platic B 30 5 - - Platic B 30 30 5 - - Platic B 30 30 20 10 5 Platic B 40 40 30 20 10 Platic B 40 40 30 20 10 Platic B 40 40 30 20 10 Platic B 40 40 40 30 20 Platic B 40 40 40 40 30 2	Approach direction		Approach s				1	2	F	Remarks
Metal 8 207 207 107 57 -	Metal B 207 207 107 57										
Metal A 30" 50" - 1	Plastic A 20 20 10 5 -		п	Metal							• The values shown in the switching diagrams for
Metal A 30° 5°	Metal A 30° 30° 20° 10° 5°	A√ B	₹,	DI .:	Α	20°	20°	10°	5°	-	
Metal B 30° 5°	Metal 8 30° 5°	_ -		Plastic	В	20°	20°	10°	5°	-	
Metal A 30° 30° 20° 10° 5° Plastic A 20° 20° 10° Plastic B 40° 40° 30° 20° 10° - Plastic B 40° 40° 30° 20° 10° 5° 10	Plastic A 30° 30° 20° 10° 5° Plastic A 30° 30° 20° 5° 5° Plastic A 30° 30° 30° 20° 5° 5° Plastic A 30° 30° 30° 20° 5° 5° 5° 5° 5° 5° 5°	<u> </u>		Metal				- -	- -	- -	
Metal A 30" 30" 20" 10" 5"	Metal A 30° 30° 20° 10° 5°	•	П	Plastic		30°		-	-	-	
Metal 8 30" 30" 20" 10" 5" 5" 5" 5" 5" 5" 5"	Metal B 30" 30" 20" 10" 5" 5" 5" 5" 5" 5" 5"		V	· iustic	В	30°	5°	-	-	-	
Plastic A 30° 30° 20° 10° 5° switching diagrams for switching diagrams for switching diagrams for switching travel/force refer to plunger direction	Plastic A 30" 30" 20" 10" 5" 5" 5" 5" 5" 5" 5"				Α	30°	30°	20°	10°	5°	
Metal 8 20" 20" 10" 5"	Metal			Metal	В	30°	30°	20°	10°	5°	The values shown in the switching diagrams for
Metal A	Metal A 2	A B	П	Plastic	Α	30°	30°	20°	10°	5°	switching travel/force refer to plunger direction
Metal B 20° 20° 10°	Metal B 20" 20" 10"	1	₹	riustic	В	30°	30°	20°	10°	5°	
Plastic A	Plastic A	В		Metal					-	-	
Metal A 20" 20" 10" 20" 10" 20" 10" 20" 10" 20" 10" 20" 20" 10" 20"	Metal A 20" 20" 10"	ت آھے		metui							
Metal A	Metal	н	П	Plastic							switching travel/force refer to plunger direction
Metal B 20° 20° 10°	Metal B 20° 20° 10°	HL B	₹,		В	40°	40°	30°	20°	10°	
National Plastic A	Plastic A	- (□		Metal					-	-	• The values shown in the switching diagrams for
Metal B 40° 40° 30° 20° 10° -	Metal B A0°	€ VB	Л								
Metal A	Metal B 30° 30° 20° 10° -		\checkmark	Plastic							
Metal B 30° 30° 20° 10° -	Metal B 30° 30° 20° 10°										
Plastic B 40° 40° 40° 30° 20° 10°	Plastic B 40° 40° 40° 30° 20° Adjustable upper section of actuator with roller	Ţ		Metal							
Plastic B 40° 40° 30° 20° 10° 5° 10°	Plastic B 40° 40° 40° 30° 20° 6		\uparrow								
Metal B 30° 30° 20° 10° -	Metal B 30° 30° 20° 10° -	-mi (j		Plastic		40°	40°	40°	30°	20°	 Adjustable upper section of actuator with roller
Plastic A	Plastic A	Ŷ1		Motal	Α	-	-	-	-	-	
Plastic B 40° 40° 40° 30° 20°	Metal A A S	\$	П		В	30°	30°	20°	10°		
Metal A	Metal A	Say A	₹	Plastic				-			switching travel / force refer to 90° to plunger direction
Metal B 40° 40° 30° 20° -	Metal B 40° 40° 30° 20° -	Ť		, idotic							
Plastic	Plastic A	. - □> 。 ☞	_	Metal							
Plastic B 40° 40° 40° 30° 20°	Metal A 45° 45° 40° 30° 20°	A) Q	٦Ļ								
Metal A 45° 45° 40° 30° -	Metal A 45° 45° 40° 30° -	الگ	•	Plastic							switching travery force feler to plunger unection
Metal B 45° 45° 40° 30° - Plastic B Plastic A 60° 50° 45° Plastic A 20° 20° 10° 5° - B Plastic B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Pla	Metal B 45° 45° 40° 30° - Plastic B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° Dlastic B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° 20° Plastic B 50° 45° 45° 40° 30° 20° Plastic B 50° 45° 45° 40° 30° Plastic B 50° 45° 45° 40° 30° Plas										
Plastic Plastic A	Plastic B C C C C C C C C C C C C C C C C C C	AT B	П	Metal						_	
Metal Me	Metal A 60° 50° 45°		₹,	DI+:-	Α	-	-	-	-	-	
Metal B	Metal B	r \		PIdSUC					-	-	Switch position retained after actuation
A 20° 20° 10° 5° - Plastic A 20° 20° 10° 5° - B B B	A 20° 20° 10° 5° - B Not suitable for personal protection Metal B 45° 45° 45° 40° 30° A 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 45° 45° 45° 45° 45° 45° 45°			Metal							• The values shown in the switching diagrams for switching
Plastic B	Plastic B	ATT	Ú								
Metal B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Metal A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation Graduated adjustment of roller lever on spindle with 180° repositioning Not suitable for personal protection The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation The values shown in the switching angle / actuation torque refer to direction of rotation The values shown in the switching angle / actuation torque refer to direction of rotat	Metal B 45° 45° 45° 40° 30° Plastic B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Metal A 45° 45° 45° 45° 40° 30° Not suitable for personal protection Metal A 45° 45° 45° 40° 30° 20° Plastic		~	Plastic	В	-	-	-	-	-	Not suitable for personal protection
Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Metal A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 45° 40° 30° B 45° 45° 45° 45° 40° 30° Matal A 45° 45° 45° 40° 30° The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation Graduated adjustment of roller lever on spindle with 180° repositioning Not suitable for personal protection The values shown in the switching diagrams for switching on the switching diagrams for switching on the switching diagrams for switching	Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Metal A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Not suitable for personal protection Not suitable for personal protection Metal A 45° 45° 45° 40° 30° 20° Plastic A 45° 45° 45° 40° 30° 20° Plastic A 45° 45° 45° 40° 30° 20° Plastic A 45° 45° 45° 40° 30° 20° Plastic A 45° 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic	aT PO TR		Metal							
Plastic B 45° 45° 45° 40° 30° with 180° repositioning The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation A 45° 45° 45° 40° 30° The values shown in the switching diagrams for switching angle / actuation torque refer to direction of rotation Graduated adjustment of roller lever on spindle with 180° repositioning Not suitable for personal protection Metal A 45° 45° 40° 30° The values shown in the switching diagrams for switching with 180° repositioning Figure 180 A 45° A 45° A 45° A 45° A 45° A 40° A	Plastic B 45° 45° 45° 40° 30° with 180° repositioning The values shown in the switching diagrams for swi angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate angle / actuation torque refer to direction of rotate and in longitudinal direction		Л								·
Metal B 45° 45° 45° 40° 30° angle / actuation torque refer to direction of rotation A 45° 45° 45° 40° 30° Graduated adjustment of roller lever on spindle with 180° repositioning Not suitable for personal protection A 45° 45° 40° 30° 20° The values shown in the switching diagrams for switching	Metal B 45° 45° 45° 40° 30° Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Not suitable for personal protection The values shown in the switching diagrams for switch angle / actuation torque refer to direction of rotate angl	جات.	V	Plastic							· · · · · · · · · · · · · · · · · · ·
Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Not suitable for personal protection A 45° 45° 40° 30° 20° The values shown in the switching diagrams for switching	Plastic A 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° B 45° 45° 45° 40° 30° Not suitable for personal protection Not suitable for personal protection A 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° B 45° 45° 40° 30° 20° Plastic A 45° 45° 40° 30° 20° Plastic	A √ O ₹ JB		Metal							
Plastic B 45° 45° 45° 40° 30° with 180° repositioning Not suitable for personal protection A Metal A 45° 45° 40° 30° The values shown in the switching diagrams for switching	Plastic B 45° 45° 45° 40° 30° with 180° repositioning Not suitable for personal protection Not suitable for personal protection Not suitable for personal protection The values shown in the switching diagrams for swi angle / actuation torque refer to direction of rotat Plastic A 45° 45° 40° 30° 20° The values shown in the switching diagrams for swi angle / actuation torque refer to direction of rotat B 45° 45° 40° 30° 20° Graduate adjustment of rod about pivot axis and in longitudinal direction	r#h	Ţ								
A 45° 45° 40° 30° • The values shown in the switching diagrams for switching	Metal A 45° 45° 40° 30° 20° B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic	-1757	V	Plastic							with 180° repositioning
Metal Metal	Metal B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° Plastic B 45° 45° 40° 30° 20° ■ Graduate adjustment of rod about pivot axis and in longitudinal direction	,T 🐡 . 🕶 T-			Δ	/15°	45°	40°	300	20°	
	Plastic B 45° 45° 40° 30° 20° Graduate adjustment of rod about pivot axis and in longitudinal direction	A) VB	П	Metal							
A 45° 45° 40° 30° 20° • Graduate adjustment of rod about pivot axis and in	Plastic B 45° 45° 40° 30° 20° longitudinal direction	(, , , , , , , , , , , , , , , , , , ,	\downarrow								
Plastic '	AV I VB	. T *** -		Plastic							· · · · · · · · · · · · · · · · · · ·
A 45° 45° 40° 30° 20° • The values shown in the switching diagrams for switching Metal A 45° 45° 40° 30° 20° • The values shown in the switching diagrams for switching		AV J VB		Metal	Α	45°	45°	40°	30°	20°	
B 45° 45° 40° 30° 20° angle / actuation to que leter to direction of totalion	B 45° 45° 40° 30° 20° angle / actuation to que leier to unection of rotat	<u>t</u>	Л	metai							
Plastic	Plastic A 45° 45° 40° 30° 20° ● Graduated adjustment of spring about pivot axis B 45° 45° 40° 30° 20° ● Not suitable for personal protection	, ,	V	Plastic							, , ,

Limit Switch - Spindle-Mounted Lever

Switching devices with spindle-mounted lever enclosure

On delivery, contact-making takes place in both pivot directions corresponding to the switching diagrams.

Adaptation of basic actuator setting on spindle

The basic setting of the device can be varied in steps and fixed for exact positioning:

- AH, AHS, AHZ, AF, AD, AV: Adjustment in steps of 15° (Fig. 1)
- AHS-V: Adjustment in steps of 7.5° or 15° (only here \bigcirc) by repositioning the intermediate piece (Fig. 2)
- Adaptation AV, AD: Adjustment in radial direction
- AH, AHS, AHS-V, AHZ, AV: The roller levers can be used in a different axial actuating plane by repositioning by 180° (Fig. 3 and 4)



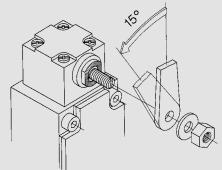
With actuators AHS, AHS-V, AV, AD.

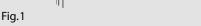
On delivery, contact-making takes place in both pivot directions corresponding to the switching diagrams. An idle function in the required pivot direction is achieved by simply repositioning the actuator cam (Fig. 5 and 6).

The idle function can be used in control systems that cannot process successive rebound pulses caused by oscillatory movement of extremely long AV/AD actuators.

Positive opening action Forward and return AHZ

For special safety applications, the positive opening action of the normally-closed contacts takes place both in forward (moving in one direction) as well as in return (moving back to home position) direction. For personal protection applications movement of the roller must be restrained in a guide block in both directions (Fig. 7 and 8).





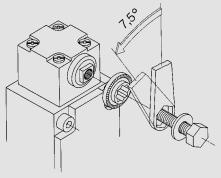


Fig. 2

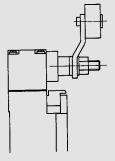


Fig. 3

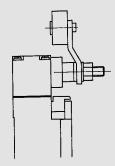


Fig. 4

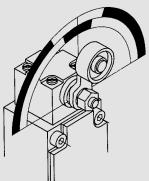


Fig. 5

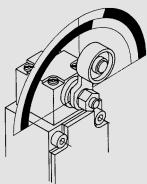


Fig. 6

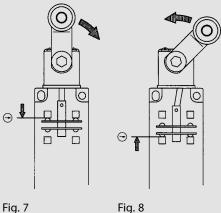


Fig. 7

Note on changing actuators AH, AHS, AHS-V, AHZ, AF, AD, AV, DGH, DGK

The guaranteed as-delivered properties change when the actuation directions are adjusted and when actuators are repositioned by 90°.

The user himself must ensure that the device achieves safe operation for its intended purpose.



Accessories for Insulation-Enclosed Limit Switches

The mounting plates help to prevent over-tightening and damage to the switch.





Article		
Series		
Article number		

Mounting pads 188 3191871157 Mounting pads ENK 3191871154

The Finger guard help to prevent the user from an electric shock.

The guide element allows additional support to the rear of the switch.





Article	
Series	
Article number	

Finger guard 188, Biggy 2, ENK 3595900060 Guide element 188 3515900209

The mounting plate allows I88 switches to be din rail mounted in control enclosures.



Article	Moun
Series	188
Article number	35959

Mounting plate, control cabinet
188
3595900087

Article NPT adapter NPT adapter
Series Various families Various families
Article number 3998000115 3998000116

Electrical data

Type 1 switches

Slow-act	ion contac	t				C2 / Ti2				
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	2NC	A2Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	250 V	10 A
Changeover contact	1NC/1S	U1Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	250 V	10 A
Changeover contact, overlapping	1NC/1S	UV1Z	-	-	-	-	-	-	-	-
Normally-open contact	25	E2	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	_	_	_

Snap-act	ion contac	t		C2 / Ti2							
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}	
Normally-closed contact	2NC	SA2Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	250 V	10 A	
Changeover contact	1NC/1S	SU1Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	250 V	10 A	
Normally-open contact	25	SE2	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	-	-	-	

Slow-act	tion contac	:t				Bi2				
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	2NC	A2Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.	400 V	5 A
Changeover contact	1NC / 1NO	U1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.	400 V	10 A
Changeover contact, overlapping	1NC / 1NO	UV1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.	400 V	10 A
Normally-open contact	2S	E2	ı	-	_	-	-	-	-	-

Snap-ac	tion contac	:t		Bi2						
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	2NC	SA2Z	-	-	-	-	-	-	-	-
Changeover contact	1NC/NO	SU1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 2 A gL/gG	10 x 10 ⁶	20 mill.	400 V	10 A
Normally-open contact	25	SE2	-	-	-	-	-	-	-	-

Slow-act	ion conta	ct				GC				
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	2NC	A2Z	400 V	6 A		Fuse 6 A gL/gG	1 x 10 ⁵	0,2 mill. ¹⁾	400 V	10 A
Changeover contact	1NC / 1NO	U1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10×10^6	20 mill. ²	400 V	10 A
Changeover contact, overlapping	1NC / 1NO	UV1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.	-	-
Normally-open contact	2S	E2	400 V	6 A	_	Fuse 6 A gL/gG	3 x 10 ⁶	-	_	-
			1 6021	1820175	GC-A2 HIW = 20 million	② 60121100622 GC-U1Z VKS, 6121100623 GC-U1Z VKW = 2 milli				
			Ĭ .						I	

Snap-ac	tion contac	ct				GC				
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	2NC	SA2Z	-	-	-	-	-	-	-	-
Changeover contact	1NC / 1NO	SU1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 2 A gL/gG	10 x 10 ⁶	20 mill.	400 V	10 A
Normally-open contact	25	SE2	-	-	=	-	-	-	-	-



IF	:										
Utilization category	Short-circuit protection	Mechanical service life	B10d	U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d		
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	250 V	5 A	AC-15 U _e /I _e 240 V/1.5 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.		
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3×10^6	6 mill.	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10×10^6	20 mill.*		
	-	-	-	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10×10^6	20 mill.		
-	_	-	-	250 V	5 A	AC-15 U _e /I _e 240 V/1.5 A	Fuse 6 A gL/gG	1 x 10 ⁶	-		
*<11<010140 100 H17 VC <10<10200F 100 H17 W ATT = 2 million											

ı	F				188						
Utilization category	Utilization category Short-circuit protection		B10d	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d		
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.	_	-	-	-	-	-		
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3×10^6	6 mill.	250 V	10 A	$AC-15 U_e/I_e 240 V/3 A$	Fuse 2 A gL/gG	10×10^6	20 mill.		
-	-	-	-	-	-	-	-	-	-		

EN	IK		
Utilization category	Short-circuit protection	Mechanical service life	B10d
AC-15 U _e /I _e 240 V/1.5 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.
AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.*
AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.
-	-	-	-

*6181135251 ENK-U1Z AHSGU RAST RO50 = 2 million

ENK											
Utilization category	Short-circuit protection	Mechanical service life	B10d								
-	-	-	-								
AC-15 U _e /I _e 240 V/3 A	Fuse 2 A gL/gG	10 x 10 ⁶	20 mill.								
-	-	-	-								

SN	12						ENM2		
Utilization category	Mechanical service life	B10d	U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	10 x 10 ⁶	20 mill.	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.
AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	_	20 mill.	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10×10^6	20 mill.*
-	-	-	-	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.
-	_	-	-	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10×10^6	-

				*60871	35013 EN	M2-U1Z AHS-V. 6087135	5030 ENM2-U1Z AHZ = 2 million		
SN	N2						ENM2		
Utilization category	Short-circuit protection	Mechanical service life	B10d	U _i I _{the} Utilization category Short-circuit protection Mechanics service life					
	-	-	-	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	6 mill.
AC-15 U _e /I _e 240 V/3 A	Fuse 2 A gL/gG	10×10^6	20 mill.	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 2 A gL/gG	10 x 10 ⁶	20 mill.
-	-	-	-	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	3 x 10 ⁶	-

Electrical data

Type 1 switches

Slow-act	ion contac	t		D								
Switching function Switching contacts Designation		Designation	U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d				
Normally-closed contact	2NC	A2Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.				
Changeover contact	1NC/1S	U1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.				
Changeover contact, overlapping	1NC/1S	UV1Z	400 V	16 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.				
Normally-open contact	25	E2	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	-				

Snap-ac	tion contac	ct		D								
Switching function	witching function Switching Designation contacts		U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d				
			-	-	-	_	-	-				
Normally-closed contact	2NC	SA2Z	-	-	-	-	-	-				
Changeover contact	1NC/1S	SU1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	10 x 10 ⁶	20 mill.				
Normally-open contact	25	SE2	-	-	-	-	-	-				

Type 2 switches

Slow-act	ion contac	t		SKT						
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	1NC	A1Z								
Normally-closed contact	2NC	A2Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A DC-13 U _e /I _e 250V / 0.27 A	Fuse 6 A gL/gG	A* 1 x 10 ⁶ B* 1 x 10 ⁵	2 mill.	250 V	10 A
Changeover contact	1NC/1S	U1/U1Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A DC-13 U _e /I _e 250V / 0.27 A	Fuse 6 A gL/gG	A* x 10 ⁶ B* 1 x 10 ⁵	2 mill.	250 V	10 A
Changeover contact, overlapping	2NC/1S	UV15Z	250 V	5 A	-	-	-	-	250 V	5 A
							*A = Standard; B	= Increas	ed actua	ting force

Slow-act	ion contac	t	SK							
Switching function Switching Designation Contacts		U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	U _i	I _{the}	
Normally-closed contact	1NC	A1Z	-	_	_	_	-	-	-	_
Normally-closed contact	2NC	A2Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.		
Changeover contact	1NC/1S	U1/U1Z	250 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	1 x 10 ⁶	2 mill.	250 V	10 A
Changeover contact, overlapping	2NC/1S	UV15Z	400 V	5 A	AC-15 U _e /I _e 240 V/1.5 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.	_	_

Slow-act	ion contac	t				ENM2				
Switching function	Switching contacts	Designation	Ui	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d	Ui	I _{the}
Normally-closed contact	1NC	A1Z	-	-	-	-	-	-	-	-
Normally-closed contact	2NC	A2Z	400 V	10 A	$AC-15 U_e/I_e 240 V/3 A$	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.	400 V	6 A
Changeover contact	1NC/1S	U1/U1Z	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	1 x 10 ⁶	2 mill.	400 V	10 A
Changeover contact, overlapping	2NC/1S	UV15Z	250 V	5 A	$AC-15 U_e/I_e 240 V/1.5 A$	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.		

Rated insulation voltage Conventional thermal output from devices in enclosure



(I			SKC							
Short-circuit protection	Mechanical service life	B10d	U _i	J _i I _{the} Utilization category Short-circuit protection				B10d		
			250 V	5 A	AC-15 U _e /I _e 240 V/1,5 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.		
Fuse 6 A gL/gG	A* 1 x 10 ⁶ B* 1 x 10 ⁵	2 mill.	-	-	-	-	-	-		
Fuse 10 A gL/gG	A*1 x 10 ⁶ B* 1 x 10 ⁵	2 mill.	-	-	-	-	-	-		
Fuse 6 A gL/gG	A* 1 x 10 ⁶ B* 1 x 10 ⁵	2 mill.	-	-	-	-	-	-		
	*A = Standard;	B = Increa	sed actu	ating for	ce					
	Short-circuit protection Fuse 6 A gL/gG Fuse 10 A gL/gG	Short-circuit protection Mechanical service life Fuse 6 A gL/gG A* 1 x 106 B* 1 x 105 A* 1 x 106 B* 1 x 105 B* 1 x 1	Short-circuit protection Mechanical service life B10d Fuse 6 A gL/gG A* 1 x 106 B* 1 x 105 B* 1 x 105 B* 1 x 106 B* 1 x 105 B* 1 x 1	Short-circuit protection Mechanical service life B10d U _I Fuse 6 A gL/gG A*1 x 10 ⁶ B*1 x 10 ⁵ B*1 x 10 ⁵ B*1 x 10 ⁵ A*1 x 10 ⁵ B*1 x 10 ⁵ B*1 x 10 ⁵ B*1 x 10 ⁵ 2 mill. -	Short-circuit protection Mechanical service life B10d U _i I _{the} 250 V 5 A Fuse 6 A gL/gG A* 1 x 10 ⁶ B* 1 x 10 ⁵ A* 1x 10 ⁶ B* 1 x 10 ⁵ B* 1 x 10 ⁵ A* 1x 10 ⁶ B* 1 x 10 ⁵ B* 1	Short-circuit protection Mechanical service life B10d U _i I _{the} Utilization category Fuse 6 A gL/gG A* 1 x 10 ⁶ B* 1 x 10 ⁵ B*	Short-circuit protection Mechanical service life B10d U _i I _{the} Utilization category Short-circuit protection Fuse 6 A gL/gG A*1 x 10 ⁶ B* 1 x 10 ⁵	Short-circuit protection Mechanical service life B10d U₁ I₁₀ Utilization category Short-circuit protection Mechanical service life Fuse 6 A gL/gG A* 1 x 106 B* 1 x 105		

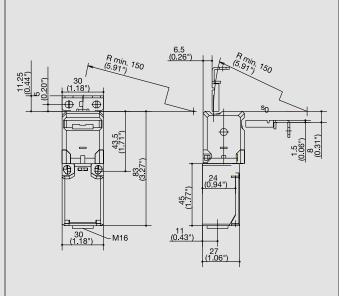
188				ENK					
Utilization category	Short-circuit protection	Mechanical service life	B10d	U _i	I _{the}	Utilization category	Short-circuit protection	Mechanical service life	B10d
-	_	-	-	_	-	_	_	-	-
				400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.
AC-15 U _e /I _e 240 V/3 A F	Fuse 10 A gL/gG	1 x 10 ⁶	2 mill.	400 V	10 A	AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	1 x 10 ⁶	2 mill.
-	_	-	-	400 V	5 A	AC-15 U _e /I _e 240 V/1.5 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.

GC					
Utilization category	Short-circuit protection	Mechanical service life	B10d		
-	-	-	-		
AC-15 U _e /I _e 240 V/3 A	Fuse 6 A gL/gG	1 x 10 ⁶	2 mill.		
AC-15 U _e /I _e 240 V/3 A	Fuse 10 A gL/gG	1 x 10 ⁶	2 mill.		

Safety Switches with Separate Actuator

SKT





Safety switches with separate actuator are positive opening position switches. In terms of design, the switching element and actuator are separated. On actuation, the switching element and actuator are either brought together or separated. The positive opening NC contact is always open when the actuator is withdrawn. These switches are assigned to Type 2.

BERNSTEIN offers various versions of these Type 2 switches. The differences and advantages of the individual switch groups are outlined in the following.

The SKT is the smallest safety switch with a separate actuator. It is particularly suited for applications that require an extremely slim and short switch design. Its rotary head, two actuator openings and various switching functions underscore its versatility in extremely confined spaces.

Added to this, the SKT features other options to meet any requirements:

• Integrated eject function (FE):

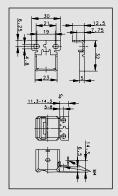
The actuator is ejected if the door is not locked securely. Consequently, the safety contact is opened, thus preventing the machine from starting up. In addition, this function makes it apparent that the door still needs to be locked.

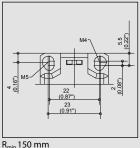
• Actuating force (up to 50 N):

The standard actuating force is 10 N. Depending on the switch variant, an actuating force of 50 N can also be selected. In many applications, hatches and doors need to be secured to prevent them being opened unintentionally. This is achieved by means of bolts, fasteners or other latching mechanisms. The SKI safety switch should be selected for applications requiring increased actuating force.

• Universal Hinged Actuator (MRU):

The MRU actuator is ideally suited for applications where the installation conditions severely restrict the actuating travel or radius. It has an adjustable actuating radius in the horizontal and vertical plane.





R_{min} 150 mm Actuating forces FE to FI50

Technical data

Electrical data				
Rated insulation voltage	U _i max.	250 V		
Rated operating voltage	U _e max.	240 V AC		
Conventional thermal current	I _{the}	10 A		
Utilization category	AC-15, U _e /I _e 240 V / 3 A; DC-13, U _e /I _e 250 V / 0.27 A			
Mechanical data				
Switching frequency		≤ 30/min		
Mechanical service life Standard	1 x 10 ⁶ switching cycles			
Mechanical service life encreased a	1 x 10⁵ switching cycles			
B10d (up to) 10	2 Mill.			
Short-circuit protection	Fuse 6 A gL/gG			
Protection class	II, Insulated			
Ambient temperature	−30 °C to + 80 °C			
Protection class	IP 65 conforming to IEC/EN 6052			
Type of connection	Screw connections			
Conductor cross sections		Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm		
Enclosure		Thermoplastic, glass fibre-reinforced (UL94-V0)		
Cable entry		M16 x 1.5		
Standards				
VDE 0660 T100, DIN EN 60947- VDE 0660 T200, DIN EN 60947-				

① Depending on switching system. See Table on Pages 70 – 73.



SKI



The SKI is the slimline version of a safety switch with a separate actuator. It is based on the BERNSTEIN I88 family. Its dimensions, not including the actuating head, correspond to EN 50047.

The actuating head is rotary mounted and has two actuator openings. The SKI safety switch is predestined for installation on section structures and in applications with confined installation conditions. Compared to the SKT, it offers more connection space for the wiring and variants with up to three switching contacts available.

Other advantages of this series include:

• Integrated eject function (FE):

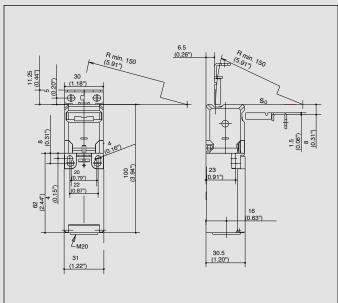
The actuator is ejected if the door is not locked securely. Consequently, the safety contact is opened, thus preventing the machine from starting up. In addition, this function makes it apparent that the door still needs to be locked.

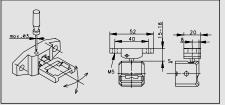
Actuating force (up to 50 N):

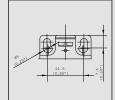
The standard actuating force is 10 N. Depending on the switch variant, an actuating force of 50 N can also be selected. In many applications, hatches and doors need to be secured to prevent them from being opened unintentionally. This is achieved by means of bolts, fasteners or other latching mechanisms. The SKI safety switch should be selected for applications requiring increased actuating force.

Universal radius actuator (MRU):

The MRU actuator is ideally suited for applications where the installation conditions severely restrict the actuating travel or radius. It has an adjustable actuating radius in the horizontal and vertical plane.







R_{min} in setting directions 50 mm Actuating forces FE to FI50

Technical data

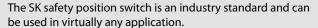
Electrical data			
Rated insulation voltage	U _i max.	250 V AC	
Rated operating voltage	ted operating voltage U _e max.		
Conventional thermal current (up to) $^{\odot}$	I _{the}	10 A	
Utilization category (up to) ^①		AC-15, U _e /I _e 240 V / 3 A	
Mechanical data			
Switching frequency		≤ 30/min.	
Mechanical service life Standard Mechanical service life encreased ac	1 x 10 ⁶ switching cycles 1 x 10 ⁵ switching cycles		
B10d (up to) ^①	2 Mill.		
Short-circuit protection	Fuse 6 A gL/gG		
Protection class	II, Insulated		
Ambient temperature	−30 °C to + 80 °C		
Protection class	IP 65 conforming to IEC/EN 60529		
Type of connection		Screw connections	
Conductor cross sections	Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²		
Enclosure	Thermoplastic, glass fibre-reinforced (UL94-V0)		
Cable entry	1 x M20 x 1.5		
Standards			
VDE 0660 T100, DIN EN 60947-1 VDE 0660 T200, DIN EN 60947-5			

¹ Depending on switching system. See Table on Pages 70 – 73.

Safety Switches with Separate Actuator

SK





Thanks to design safety features conforming to VDE 0660 T200, IEC 60947-5-1 and the test regulations GS-ET 15, the SK is particularly suitable for personal protection applications. Its versatility is enhanced by the variable actuator head and two actuator openings.

Other decisive advantages include:

• Different actuating forces:

Corresponding to your specific application, in addition to the standard 10 N, you can also choose an actuating force of 5, 20 or 30 N.

Actuating forces from 30 to 100 N can be realised with the aid of additional components that are mounted on the outside of the switch.

Anti-tamper facility:

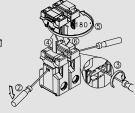
The switching system is protected by multiple coding to ensure enhanced safety of your application.

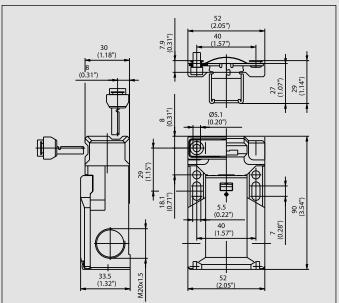
Outstanding handling:

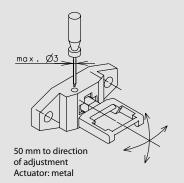
With the two slots you can easily adjust the SK safety switch and lock it in position by means of the two holes accessible from the top or the two holes accessible from the front. The switch can be wired from three different sides. A transparent cover prevents foreign particles from entering the contact space while connecting the power supply cable.

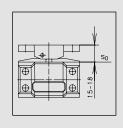












Technical data

Electrical data		
Rated insulation voltage (up to) 1	U _i max.	400 V AC
Rated operating voltage	U _e max.	240 V
Conventional thermal current (up to) 10	I _{the}	10 A
Utilization category		AC-15, U _e /I _e 240 V / 1.5 A

Mechanical data	
Switching frequency	≤ 30/min
Mechanical service life	1 x 10 ⁶ switching cycles
B10d (bis zu) ^①	2 Mill.
Short-circuit protection (up to) 1	Fuse 10 A gL/gG
Protection class	II, Insulated
Ambient temperature	−30 °C + 80 °C
Protection class	IP 65 conforming to IEC/EN 60529
Type of connection	Screw connections
Conductor cross sections	Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²
Enclosure	Thermoplastic, glass fibre-reinforced (UL94-V0)
Cable entry	3 x M20 x 1.5

Standards

VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1

① Depending on switching system. See Table on Pages 70 – 73.



SKC



In terms of lengths, the SKC safety position switch is the 15 mm shorter variant of the SK. This makes it the right choice for confined installation conditions.

The SKC otherwise offers the same advantages as the SK: Industrial standard with particular emphasis on safety, personal protection and a variable actuator head with two actuator openings.

Other decisive advantages include:

• Different actuating forces:

Corresponding to your specific application, in addition to the standard 10 N, you can also choose an actuating force of 5, 20, 30 or 50 N.

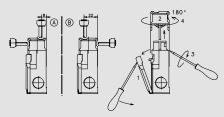
Actuating forces from 30 to 100 N can be realised with the aid of additional components that are mounted on the outside of the switch.

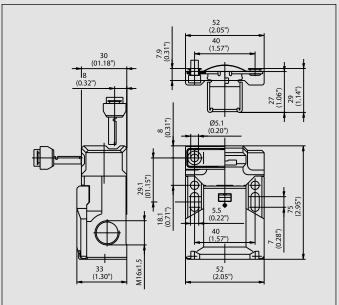
Anti-tamper facility:

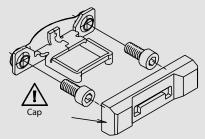
The switching system is protected by multiple coding to ensure enhanced safety of your application.

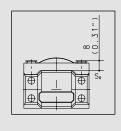
Outstanding handling:

With the two slots you can easily adjust the SKC safety switch and lock it in position by means of the two holes accessible from the top or the two holes accessible from the front. The switch can be wired from three different sides. A transparent cover prevents foreign particles from entering the contact space while connecting the power supply cable.









R_{min} 150 mm (5.9") Actuator: Metal

Technical data

Electrical data						
Rated insulation voltage	U _i max.	250 V AC				
Rated operating voltage	U _e max.	240 V				
Conventional thermal current	I _{the}	5 A				
Utilization category		AC-15, U_e/I_e 240 V $/$ 1.5 A				
Mechanical data						
Switching frequency	≤ 30/min.	≤ 30/min.				
Mechanical service life	1 x 10 ⁶ sw	1 x 10 ⁶ switching cycles				
B10d (up to) ^①	2 Mill.	2 Mill.				
Short-circuit protection	Fuse 6 A g	Fuse 6 A gL/gG				
Protection class	II, Insulate	II, Insulated				
Ambient temperature	−30 °C	−30 °C + 80 °C				
Protection class	IP 65 conf	IP 65 conforming to IEC/EN 60529				
Type of connection	Screw con	Screw connections				
Conductor cross sections		Single-wire 0.5 – 1.5 mm ² or Stranded wire with ferrule 0.5 – 1.5 mm ²				
Enclosure	Thermople	Thermoplastic, glass fibre-reinforced (UL94-V0)				
Cable entry	3 x M16 x	3 x M16 x 1.5				
Standards						

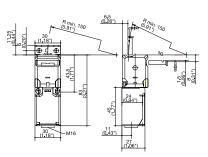
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 ① Depending on switching system. See Table on Pages 70 – 73.

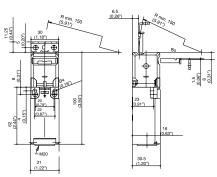
Safety Switches with Separate Actuator

SKI

SKI

SKI





Switching operation	Standard	High actuating force	Radius actuation	Standard	High actuating force	Radius actuation
1 NC / 1 NO contact	6016419059 SKT-U1Z M3			6016819052 SKI-U1Z M3	6016819139 SKI-U1Z FI50 M3	6016819123 SKI-U1Z MRU
1 NC contacts						
2 NC contacts	6016469066 SKT-A2Z M3			6016869056 SKI-A2Z M3		6016869122 SKI-A2Z MRU
1 NC / 1 NO contact Overlapping				6016869058 SKI-UV15Z M3	6016869145 SKI-UV15Z FI50 M3	6016869131 SKI-UV15Z MRU
Approvals	(l) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	•		©		

Special features / variants

(on request)

Replacement actuator for: 3112850340 Special features / variants

(on request)

Replacement actuator for: Standard3'

Standard 3112850340 High actuating force 3112850340 Radius actuation 3911452058