

Ø 30 mm Key Selector Switches



S3KF Series CATALOG



For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.



The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Smooth operation
- High electrical conductivity
- Long-lasting durability

Specifications

Series	S3KF Series
Actuation angle	2-position: [Spring return] $60^\circ \pm 5^\circ$ [Maintained] $90^\circ \pm 5^\circ$ 3-position: [Spring return] $60^\circ \pm 5^\circ$ [Maintained] $90^\circ \pm 5^\circ$
Actuation force	0.5 kgf (4.9 N) (per 1 contact)
Installation	Flush
Shock	300 m/s ² (\approx 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s ² (\approx 10 G) in each X, Y, Z direction for 3 times
Vibration	1.5 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	1.5 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 minutes
Mechanical life cycle (control unit life cycle)	\geq 100,000 operations (20 operations/min)
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection structure	Control unit: IP52 (IEC standard)
Approval	CE  ENEC 
Control unit weight	\approx 41 g
Housing weight	\approx 7 g

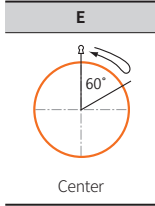
Contact blocks	
Power supply / current	110 VAC~ / 10 A, 250 VAC~ / 6 A
Dielectric strength	2,500 VAC~ 50/60 Hz for 1 minute
Insulation resistance	\geq 1,000 M Ω (500 VDC= megger)
Contact resistance	\leq 20 m Ω (initial)
Electrical life cycle	\geq 100,000 operations (20 operations/min)
Contact material	AgNi10
Approval	CE  ENEC 
Weight	Modular type: \approx 10 g, Singular type: \approx 11 g

Sold Separately

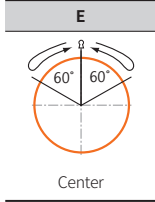
- Contact blocks (SA□-C□□)
- Locking handle (SA□-LH)
- Switch washer (SA-SW□)

Key Removal Position

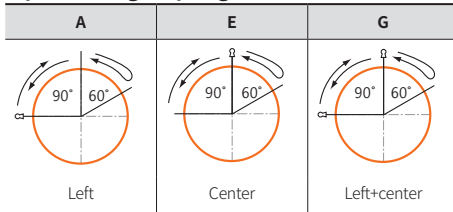
2-position spring return



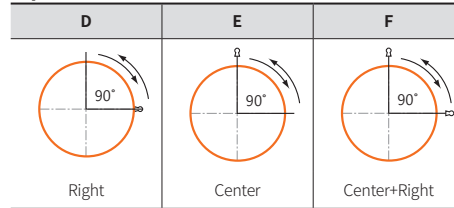
3-position two-way spring return



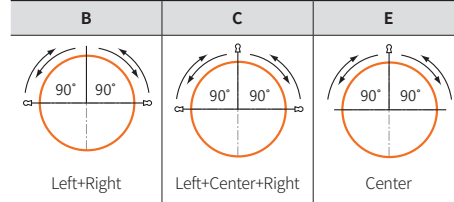
3-position right spring return



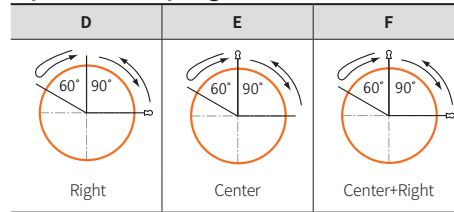
2-position maintained



3-position maintained



3-position left spring return



Ordering Information

This is only for reference. For selecting the specified model, follow the Autonics website.

Model is based on control unit+block combination. Control units or blocks are sold separately. In case of block, refer to control switch accessories.

S3KF	-	①	②	S	③	④
Control unit					Block	

① Operation

- 1: 2-position spring return
- 2: 2-position maintained
- 3: 3-position two-way spring return
- 4: 3-position maintained
- 5: 3-position right spring return
- 6: 3-position left spring return

② Key removal position

Refer to Key Removal Position.

③ Contact block

- A: 1 A contact (2-position)
- B: 1 B contact (2-position)
- 2A: 2 A contacts
- 2B: 2 B contacts
- AB: 1 A contact, 1 B contact

④ Block

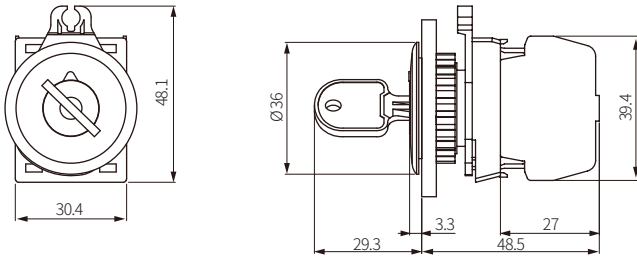
- No mark: Singular type
- M: Modular type

Model	Contact block		LED block	
	A contact	B contact	AC/DC voltage	AC voltage
S3KF-1ESA(M)	1	-		
S3KF-1ES2A(M)	2	-		
S3KF-1ESB(M)	-	1	-	-
S3KF-1ES2B(M)	-	2		
S3KF-1ESAB(M)	1	1		
S3KF-2DSA(M)	1	-		
S3KF-2DS2A(M)	2	-		
S3KF-2DSB(M)	-	1	-	-
S3KF-2DS2B(M)	-	2		
S3KF-2DSAB(M)	1	1		
S3KF-2ESA(M)	1	-		
S3KF-2ES2A(M)	2	-		
S3KF-2ESB(M)	-	1	-	-
S3KF-2ES2B(M)	-	2		
S3KF-2ESAB(M)	1	1		
S3KF-2FSA(M)	1	-		
S3KF-2FS2A(M)	2	-		
S3KF-2FSB(M)	-	1	-	-
S3KF-2FS2B(M)	-	2		
S3KF-2FSAB(M)	1	1		
S3KF-3ES2A(M)	2	-		
S3KF-3ES2B(M)	-	2	-	-
S3KF-3ESAB(M)	1	1		
S3KF-4BS2A(M)	2	-		
S3KF-4BS2B(M)	-	2	-	-
S3KF-4BSAB(M)	1	1		
S3KF-4CS2A(M)	2	-		
S3KF-4CS2B(M)	-	2	-	-
S3KF-4CSAB(M)	1	1		
S3KF-4ES2A(M)	2	-		
S3KF-4ES2B(M)	-	2	-	-
S3KF-4ESAB(M)	1	1		
S3KF-5AS2A(M)	2	-		
S3KF-5AS2B(M)	-	2	-	-
S3KF-5ASAB(M)	1	1		
S3KF-5ES2A(M)	2	-		
S3KF-5ES2B(M)	-	2	-	-
S3KF-5ESAB(M)	1	1		
S3KF-5GS2A(M)	2	-		
S3KF-5GS2B(M)	-	2	-	-
S3KF-5GSAB(M)	1	1		
S3KF-6DS2A(M)	2	-		
S3KF-6DS2B(M)	-	2	-	-
S3KF-6DSAB(M)	1	1		
S3KF-6ES2A(M)	2	-		
S3KF-6ES2B(M)	-	2	-	-
S3KF-6ESAB(M)	1	1		
S3KF-6FS2A(M)	2	-		
S3KF-6FS2B(M)	-	2	-	-
S3KF-6FSAB(M)	1	1		

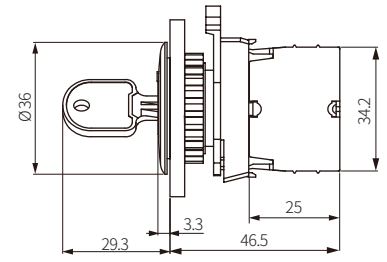
Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.
- Panel thickness: ≤ 6 mm

■ S3KF-□ (singular type block)



■ S3KF-□ M (modular type block)



■ Panel cut-out

