# **Autonics**

#### This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

SF2KR - <b>O</b>	0	- 8	- 4	
• Key lock function No mark: General type		eration dire ral type	ection	
M: Lockable type		Key free location	N.C. contact powered location	
<b>3</b> Contact block A2B: N.O. 1 + N.C. 2	LL	⊼.		_
3B: N.C. 3	RL	7	<u>∧</u>	_
2A2B: N.O. 2 + N.C. 2	LR RR	7	7	_
Key     Key	Locka	ble type		_
No mark: Basic key 01 to 09: Key number 1 to 9		Key free location	N.C. contact powered location	Lock location
	RLR	7	5	7
	RLL	7	5	5
	RRR	7	7	7
	RLB	7	5	75

### **Product Components**

**Ordering Information** 

- Instruction manual
- Key × 2
- Bracket
- Spring strap for key

• Product

# **Specifications**

Model	SF2KR-□-□-□	SF2KR-M□-□-□			
Solenoid input volatge	-	Non-polar 24 VDC== (± 10%)			
Solenoid current consumption	-	38.7 mA $\pm$ 5%			
Conditional short circuit current	100 A				
Indicator	-	Solenoid operation (green)			
Applicable wire	Contact: AWG 18 (0.823 mm <sup>2</sup> )	Solenoid power: AWG 24 - 18 Contact: AWG 18 (0.823 mm <sup>2</sup> )			
Allowable operation frequency <sup>01)</sup>	30 times/minute				
Life cycle	Mechanical: $\geq$ 100,000 times, electrical: $\geq$ 100,000 times				
Key pushing force	$\geq$ 20 N				
Key rotating torque	0.2 to 1.8 N·m				
Insulation resistance	$\geq$ 100 M $\Omega$ (500 VDC== megger)				
Dielectric strength	2,500 VAC~ 50/60 Hz for 1 minute				
Vibration	1.5 mm double 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 double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 minutes				
Shock	300 m/s <sup>2</sup> ( $\approx$ 30 g) in each X, Y, Z dire	ction for 3 times			
Shock (malfunction)	150 m/s² ( $\approx$ 15 g) in each X, Y, Z dire				
Ambient temperature	-20 to 70°C <sup>62</sup> , storage: -40 to 70 °C -10 to 55°C <sup>62</sup> , storage: -20 to 70 °C (at no freezing or condensation) (at no freezing or condensation)				
Ambient humidity	35 to 85%RH , storage: 35 to 85%RH (at no freezing or condensation)				
Protection structure	IP65 (front panel, IEC standard)				
Material	PC, POM				
Approval	CE (TUV NORD) @ 10 10 10 10 10 10 10 10 10 10 10 10 10				
Unit weight (packaged) <sup>03)</sup>	≈ 130 g (≈ 192 g)	≈ 152 g (≈ 213 g)			
ot) p					

01) Rotating and retuning once is counted as one operation.

02) UL approved ambient temperature: 55 °C

03) It is switch with contact blocks.

# Contact capacity

### • IEC (EN60947-5-1)

Rated	current	10 A			
Rated	voltage	24 V	110 V	220 V	380 V
AC	Resistive load (AC-12)	10 A	10 A	6A	3 A
AC	Inductive load (AC-15)	10 A	5 A	3 A	2 A
DC	Resistive load (DC-12)	10 A	2 A	0.6 A	0.2 A
DC	Inductive load (DC-13)	1.5 A	0.5 A	0.2 A	0.1 A

• UL / CSA (UL508, CSA C22.2 No. 14) 1200

A300		
	 	r

Rated	Through	Current (A)	Volt ampere (VA)		/A)
voltage	current	Making	Breaking	Making	Breaking
AC120 V	10 A	60	6	7,200	720
AC240 V	10 A	30	3		

Q300

Rated	Through	Current (A)		Volt ampere (VA)	
voltage current		Making	Breaking	Making	Breaking
DC125 V	2.5 A	0.55	0.55	69	69
DC250 V		0.27	0.27		

# Safety Key Selector Switch



# **SF2KR 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.

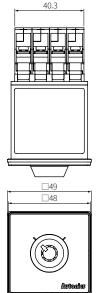
### **Main Features**

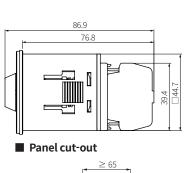
- Easy to check the lock / unlock status by the front solenoid operation indicator (lockable model: SF2KR-M)
- Various line-up of key free location, N.C. contact powered location, and lock location depending on the general / lockable type
- Contact block option up to 4 contacts : N.O. 1+N.C. 2, N.C. 3, N.O. 2+N.C. 2
- 10 different types of keys
- Sold separately : Name plate (SF2KR- - NP ) : Contact block (SFEA-C )

# 

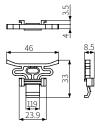
### Dimensions

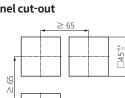
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Drawings show the general type model.





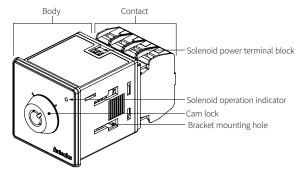
# Bracket





### **Unit Descriptions**

The below image are based on the lockable type model. There is no solenoid power
terminal block and solenoid operation indicator in the general type model.



# Sold Separately

- Name plate: SF2KR-□-NP□
- Contact block: SFEA-C□

# Sold Separately: Name Plate

### General type



### Lockable type

No.	Appearance	Model	Standard
1	Auro	SF2KR-M-NP1	V1-Nameplate
2	Autonics	SF2KR-M-NP2	V1-Nameplate
3	ON OFF	SF2KR-M-NP3	V1-Nameplate
4	OFF ON Autonics	SF2KR-M-NP4	V1-Nameplate

# Sold Separately: Contact Block

Item	Appearance	Model
A contact (Normally Open)		SFEA-CA
B contact (Normally Closed)	SFACE Visit	SFEA-CB

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