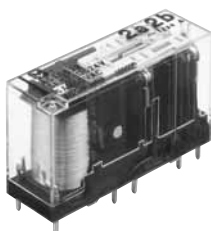




Slim type safety relays

SF RELAYS

Slim type



RoHS compliant

Protective construction: Flux-resistant type

FEATURES

- 1. Acquisition of Korean safety certification ("S" mark)**
Excluding with diode type
- 2. Forcibly guided contact structure**
- 3. Slim profile (mm inch)**
40/50 (L) × 13 (W) × 24 (H)
1.575/1.969 (L) × .512 (W) × .945 (H)
- 4. Fast response time is achieved (8 ms or less).**
- 5. With diode and LED indication type available**
- 6. Sockets and terminal sockets (spade and ring tongue terminal compatible) are available.**

TYPICAL APPLICATIONS

- 1. Machine tools**
- 2. Robots**
- 3. Safety PLCs**
- 4. Circuits with stringent safety standard requirements such as those in motor vehicle production equipment.**

ORDERING INFORMATION

SF **S** - - - -

S: Slim type

Contact arrangement

2: 2 Form A 2 Form B

3: 3 Form A 1 Form B

4: 4 Form A 2 Form B

5: 5 Form A 1 Form B

6: 3 Form A 3 Form B

Operation indication

Nil: Without LED indication

L: With LED indication

Nominal coil voltage

12, 24, 48V DC

Function

Nil: None

D: With diode

Notes: 1. Please consult us about other coil voltages.

2. LED indication color is green.

TYPES

1. Standard type

Contact arrangement		Nominal coil voltage	Without LED indication	With LED indication
			Part No.	Part No.
4 poles	2 Form A 2 Form B	12 V DC	SFS2-DC12V	SFS2-L-DC12V
		24 V DC	SFS2-DC24V	SFS2-L-DC24V
		48 V DC	SFS2-DC48V	SFS2-L-DC48V
	3 Form A 1 Form B	12 V DC	SFS3-DC12V	SFS3-L-DC12V
		24 V DC	SFS3-DC24V	SFS3-L-DC24V
		48 V DC	SFS3-DC48V	SFS3-L-DC48V
6 poles	4 Form A 2 Form B	12 V DC	SFS4-DC12V	SFS4-L-DC12V
		24 V DC	SFS4-DC24V	SFS4-L-DC24V
		48 V DC	SFS4-DC48V	SFS4-L-DC48V
	5 Form A 1 Form B	12 V DC	SFS5-DC12V	SFS5-L-DC12V
		24 V DC	SFS5-DC24V	SFS5-L-DC24V
		48 V DC	SFS5-DC48V	SFS5-L-DC48V
	3 Form A 3 Form B	12 V DC	SFS6-DC12V	SFS6-L-DC12V
		24 V DC	SFS6-DC24V	SFS6-L-DC24V
		48 V DC	SFS6-DC48V	SFS6-L-DC48V

Standard packing: Carton: 50 pcs.; Case: 200 pcs.

* Sockets and terminal sockets available.

2. With diode and LED indication type

Contact arrangement		Nominal coil voltage	Part No.
4 poles	2 Form A 2 Form B	12 V DC	SFS2-L-DC12V-D
		24 V DC	SFS2-L-DC24V-D
		48 V DC	SFS2-L-DC48V-D
	3 Form A 1 Form B	12 V DC	SFS3-L-DC12V-D
		24 V DC	SFS3-L-DC24V-D
		48 V DC	SFS3-L-DC48V-D
6 poles	4 Form A 2 Form B	12 V DC	SFS4-L-DC12V-D
		24 V DC	SFS4-L-DC24V-D
		48 V DC	SFS4-L-DC48V-D
	5 Form A 1 Form B	12 V DC	SFS5-L-DC12V-D
		24 V DC	SFS5-L-DC24V-D
		48 V DC	SFS5-L-DC48V-D
	3 Form A 3 Form B	12 V DC	SFS6-L-DC12V-D
		24 V DC	SFS6-L-DC24V-D
		48 V DC	SFS6-L-DC48V-D

Standard packing: Carton: 50 pcs.; Case: 200 pcs.

* Sockets and terminal sockets available.

RATING

1. Coil data

Contact arrangement		Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [±10%] (at 20°C 68°F)	Coil resistance [±10%] (at 20°C 68°F)	Nominal operating power (at 20°C 68°F)	Max. applied voltage (at 20°C 68°F)		
4 poles	2 Form A 2 Form B	12V DC	75%V or less of nominal voltage (Initial)	10%V or more of nominal voltage (Initial)	30 mA	400Ω	Approx. 360mW	110%V of nominal voltage		
		24V DC			15 mA	1,600Ω				
		48V DC			7.5mA	6,400Ω				
	3 Form A 1 Form B	12V DC			30 mA	400Ω				
		24V DC			15 mA	1,600Ω				
		48V DC			7.5mA	6,400Ω				
6 poles	4 Form A 2 Form B	12V DC			75%V or less of nominal voltage (Initial)	10%V or more of nominal voltage (Initial)	41.7mA		288Ω	Approx. 500mW
		24V DC					20.8mA		1,152Ω	
		48V DC					10.4mA		4,608Ω	
	5 Form A 1 Form B	12V DC	41.7mA	288Ω						
		24V DC	20.8mA	1,152Ω						
		48V DC	10.4mA	4,608Ω						
	3 Form A 3 Form B	12V DC	41.7mA	288Ω						
		24V DC	20.8mA	1,152Ω						
		48V DC	10.4mA	4,608Ω						

Note: The nominal operating current will increase by approximately 2mA due to the LED on the LED indication type.