Panasonic

Automation Controls Catalog





4-pole (2 Form A 2 Form B, 3 Form A 1 Form B)



6-pole (4 Form A 2 Form B, 5 Form A 1 Form B)

RoHS compliant

Compact Relay Family with Forcibly Guided Contacts

FEATURES

1. Forcibly guided contact structure Relay complies with EN 50205, Type A Equipped with forcibly guided contact structure that enables detection of contact welding and construction of safety circuit.

2. Small size

3. Different contact configurations:

Туре	$L \times W \times H$ (mm inch)		
2 Form A 2 Form B,	31.0 × 28.6 × 14.5		
3 Form A 1 Form B	1.220 × 1.126 × .571		
4 Form A 2 Form B,	39.0 × 28.6 × 14.5		
5 Form A 1 Form B	1.535 × 1.126 × .571		

4. Low profile: 14.5 mm .571 inch

5. Insulation according to EN 60664-1: Overvoltage category III, Pollution degree 2, 250V AC

Reinforced insulation:

Clearance and creepage 5.5 mm .217 inch

(between all contacts and between contact NO4 and coil)

Basic insulation:

Clearance 3 mm .118 inch and creepage 4 mm .157 inch (between all contacts and between contact NC3 and coil)

SF-Y RELAYS

TYPICAL APPLICATIONS

- 1. Emergency stop switches
- 2. Machine safety engineering
- 3. Safety control units
- 4. Automation technology
- 5. Elevators
- 6. Escalators

7. Overcurrent protection with monitor contact

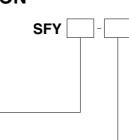
ORDERING INFORMATION

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

Nominal coil voltage

DC 5, 12, 16, 18, 21, 24V

Notes: Please consult us about other coil voltages. Gold-clad contact type available on request.



TYPES

Contact arrangement		Nominal coil voltage	Part No.		
		5 V DC	SFY2-DC5V		
		12 V DC	SFY2-DC12V		
	2 Form A 2 Form B	16 V DC	SFY2-DC16V		
		18 V DC	SFY2-DC18V		
1		21 V DC	SFY2-DC21V		
4-pole		24 V DC	SFY2-DC24V		
		5 V DC	SFY3-DC5V		
		12 V DC	SFY3-DC12V		
	3 Form A 1 Form B	16 V DC	SFY3-DC16V		
		18 V DC	SFY3-DC18V		
		21 V DC	SFY3-DC21V		
		24 V DC	SFY3-DC24V		
		5 V DC	SFY4-DC5V		
	4 Form A 2 Form B	12 V DC	SFY4-DC12V		
		16 V DC	SFY4-DC16V		
		18 V DC	SFY4-DC18V		
0		21 V DC	SFY4-DC21V		
6-pole		24 V DC	SFY4-DC24V		
		5 V DC	SFY5-DC5V		
		12 V DC	SFY5-DC12V		
	5 Form A 1 Form B	16 V DC	SFY5-DC16V		
	Ī	18 V DC	SFY5-DC18V		
	Ī	21 V DC	SFY5-DC21V		
		24 V DC	SFY5-DC24V		

Standard packing: Tube 20 pcs.

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)
	2 Form A 2 Form B	5V DC			134mA	38Ω	670mW	120%V of nominal voltage
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
4-pole		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
		5V DC			134mA	38Ω		
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
	3 Form A 1 Form B	18V DC	75%V or less of nominal voltage (Initial)	15%V or more of nominal voltage (Initial)	37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
	4 Form A 2 Form B	5V DC			134mA	38Ω		
6-pole		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
	5 Form A 1 Form B	5V DC			134mA	38Ω		
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		