



RoHS Directive compatibility information http://www.mew.co.jp/ac/e/environment/

FEATURES

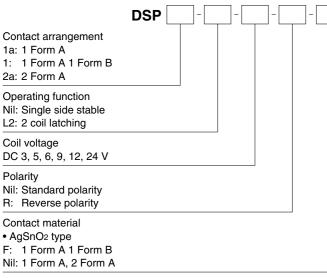
1. Compact with high contact rating

Even with small 10 mm .394 inch (H) x 11 mm .433 inch (W) x 20 mm .787 inch (L) (dimensions, high capacity switching is provided: 1a, 8 A 250 V AC; 2a and 1a1b, 5 A 250 V AC.

2. High switching capability

High contact pressure, low contact bounce, and wiping operation improve resistance to weld bonding. Resistant against lamp load and dielectric loading: 1a achieves maximum switching capacity of 2,000 VA (8A 250 V AC).

ORDERING INFORMATION



Notes: 1. Reverse polarity types available (add suffix-R) 2. UL/CSA, TÜV approved type is standard.

8 A MINIATURE POWER RELAY IN DS RELAY SERIES

3. High sensitivity

Using the same type of high-performance polar magnetic circuits as DS relays, by matching the spring load to the magnetic force of attraction, greater sensitivity has been achieved. The resultant pick up sensitivity of about 190 mW makes possible direct driving of transistors and chips.

4. High breakdown voltage

Breakdown voltage has been raised by keeping the coil and contacts separate.

Between contact and coil	Between contacts				
3,000 Vrms for 1 min. 5,000 V surge breakdown voltage	1,000 Vrms for 1 min. 1,500 V surge breakdown voltage				
Conforms with FCC Part 68					

5. Latching types available

6. Wide variation

Three types of contact arrangement are offered: 1a, 2a, and 1a1b. In addition, each is available in standard and reversed polarity types.

7. Sealed construction allows automatic washing.

8. Complies with safety standards Complies with Japan Electrical Appliance and Material Safety Law requirements for operating 200 V power supply circuits, and complies with UL, CSA, and TÜV safety standards.

DS-P RELAYS

TYPICAL APPLICATIONS

1. Office and industrial electronic devices

2. Terminal devices of information processing equipment, such as printer, data recorder.

3. Office equipment (copier, facsimile)

- 4. Measuring instruments
- 5. NC machines, temperature

controllers and programmable logic controllers.

About Cd-free contacts

We have introduced Cadmium free type products to reduce Environmental Hazardous Substances.

(The suffix "F" should be added to the part number)

(Note: The Suffix "F" is required only for 1 Form A 1 Form B contact type. The 1 Form A and 2 Form A contact type is originally Cadmium free, the suffix "F"

is not required.)

Please replace parts containing Cadmium with Cadmium-free products and evaluate them with your actual application before use because the life of a relay depends on the contact material and load.

TYPES

Contact arrangement	Nominal coil	Single side stable	2 coil latching			
	voltage	Part No.	Part No.			
1 Form A	3V DC	DSP1a-DC3V	DSP1a-L2-DC3V			
	5V DC	DSP1a-DC5V	DSP1a-L2-DC5V			
	6V DC	DSP1a-DC6V	DSP1a-L2-DC6V			
	9V DC	DSP1a-DC9V	DSP1a-L2-DC9V			
	12V DC	DSP1a-DC12V	DSP1a-L2-DC12V			
	24V DC	DSP1a-DC24V	DSP1a-L2-DC24V			
1 Form A 1 Form B	3V DC	DSP1-DC3V-F	DSP1-L2-DC3V-F			
	5V DC	DSP1-DC5V-F	DSP1-L2-DC5V-F			
	6V DC	DSP1-DC6V-F	DSP1-L2-DC6V-F			
	9V DC	DSP1-DC9V-F	DSP1-L2-DC9V-F			
	12V DC	DSP1-DC12V-F	DSP1-L2-DC12V-F			
	24V DC	DSP1-DC24V-F	DSP1-L2-DC24V-F			
2 Form A	3V DC	DSP2a-DC3V	DSP2a-L2-DC3V			
	5V DC	DSP2a-DC5V	DSP2a-L2-DC5V			
	6V DC	DSP2a-DC6V	DSP2a-L2-DC6V			
	9V DC	DSP2a-DC9V	DSP2a-L2-DC9V			
	12V DC	DSP2a-DC12V	DSP2a-L2-DC12V			
	24V DC	DSP2a-DC24V	DSP2a-L2-DC24V			

Standard packing: Tube: 50 pcs.; Case: 500 pcs. Note: Reverse polarity type are manufactured by lot upon receipt of order. Self-clinching types are also available, please consult us.

RATING

1. Coil data

1) Single side stable

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)	current Coll resistance		Max. allowable voltage (at 20°C 68°F)
3V DC			100mA	30Ω		
5V DC		60mA	83Ω			
6V DC		80%V or less of 10%V or more of nominal voltage (Initial) (Initial)	50mA	120Ω	300mW	130%V of nominal voltage
9V DC	(Initial)		33.3mA	270Ω	300000	
12V DC			25mA	480Ω		
24V DC			12.5mA	1,920Ω		

2) 2 coil latching

Nominal coil voltage	Set voltage (at 20°C 68°F)	Reset 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		Max. allowable voltage (at 20°C 68°F)
-			Set coil	Reset coil	Set coil	Reset coil	Set coil	Reset coil	
3V DC	80%V or less of nominal voltage (Initial)	nominal voltage nominal voltage	100mA	100mA	30Ω	30Ω	300mW (300mW	130%V of nominal voltage
5V DC			60mA	60mA	83Ω	83Ω			
6V DC			50mA	50mA	120Ω	120Ω			
9V DC			33.3mA	33.3mA	270Ω	270Ω			
12V DC			25mA	25mA	480Ω	480Ω			
24V DC			12.5mA	12.5mA	1,920Ω	1,920Ω			