

u Features

- Ø Slim type and small occupying area can be applied in high density PC Board mounting technique.
- Ø 5A switching capability.
- Ø Transparent sealed available.

u Coil Data [at 20°C]**Ø Standard Type**

Rated voltage (V)	Coil Resistance ±10% (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
5	34.7	144	80% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.72W
6	50	120				
9	112.5	80				
12	200	60				
18	450	40				
24	800	30				
48	3200	15				

Ø High sensitivity Type

Rated voltage (V)	Coil Resistance ±10% (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
5	46	108	80% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.54W
6	67	90				
9	150	60				
12	270	45				
18	600	30				
24	1060	22.5				
48	4360	11				

u Contact Rating

Resistive load	5A 250VAC, 5A 30VDC
----------------	---------------------

u Type List

Terminal style	Contact form	Type	Designation(provided with)
PCB terminal	2A (DPNO)	Standard	S4M-12V-2A
	2A (DPNO)	High sensitivity	S4M-12B-2A
	2C(DPDT)	Standard	S4M-12V-2C
	2C(DPDT)	High sensitivity	S4M-12B-2C

S4M RELAY

SHORI

u Ordering information

S4M - 12 B - 2A S
1 2 3 4

1. S4M -- Basic series designation.

3. 2A -- Double pole normally open

2C -- Double pole double throw

2. 12 -- Coil Voltage (5V~48V), Standard Type

12B -- High sensitivity Type

4. S -- Sealed type washable

Blank: Sealed type

u Specification

Contact material	Ag Alloy	
Contact resistance	100 m Ω Max	
Operate time	20 ms Max	
Release time	10 ms Max	
Insulation resistance	100M Ω Min. (DC 500V)	
Dielectric strength	Between open contact	: AC 1000V ,50/60Hz 1 min.
	Between contact and coil	: AC 5000V, 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5 mm
	Damage limits	10~50Hz, amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,800 operations/hr)
Operating ambient temperature	-40~+70°C (no freezing)	
Weight	Approx 13g	

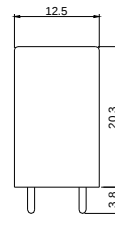
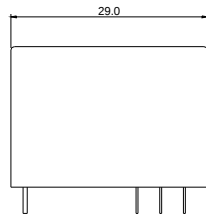
u Safety Approval

Certified	UL/CUL	TUV
File No.	E188091	R 50177786

u Safety Approval Rating

UL/CUL	TUV
5A 250VAC 5A 30VDC	5A 250VAC

u Outline Dimension



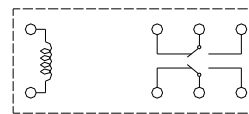
u Wiring Diagram

BOTTOM VIEW

2A

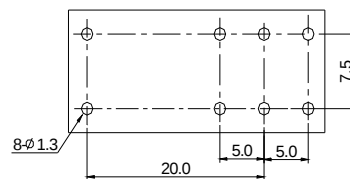
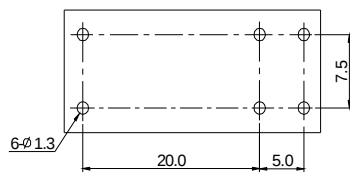


2C



u PC BOARD LAYOUT

BOTTOM VIEW



u Engineering Data

