

◆ Features

- Single contact and Double contacts type offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
- Operating ambient temperature range covers from 30 to 80 at no current on Relay's contacts.
- Standard and European Specification are available to comply with various electrical specification requirements.



◆ Coil Data [at 20°C]

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	27	186	80% of rated voltage	5% of rated voltage	150% Max of Rated voltage	Approx.0.93W
6	39	155				
9	87	103				
12	155	77.5				
15	242	62				
18	346	52				
24	615	39				

◆ Contact Rating

Resistive load	10A 120VAC, 10A 30VDC, TV-5 at 120VAC
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◆ Type List

Terminal style	Type	Contact form	Designation(provided with)	
			Flux tight	Sealed type washable
PCB terminal	Single contact	1A(SPNO)	S19-12-A	S19-12AS
		1C(SPDT)	S19-12	S19-12S
	Double contact	2A(DPNO)	S19W-12-2A	S19W-12-2AS
		2C(DPDT)	S19W-12-2C	S19W-12-2CS

S19 RELAY

SHORI

◆ Ordering information

S19 W - 12 - A S
 1 2 3 4 5

1.S19 -- Basic series designation

2.Blank – Single contact

W – Double contacts

3.12 -- Coil Voltage (5V~24V)

5. Blank --Flux tight type

S -- Sealed type washable

4. A – Single pole normally open

Blank – Single pole double throw

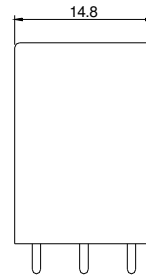
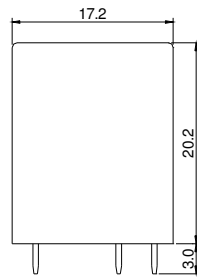
2A – Double pole normally open

2C – Double pole double throw

◆ Specification

Contact material	Ag Alloy	
Contact resistance	100 mΩ Max	
Operate time	10 ms Max	
Release time	10 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 500V ,50/60Hz 1 min	
	Between contact and coil : AC 500V, 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	-25~+80°C	
Weight	Approx 10 g	

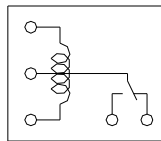
◆ Outline Dimension



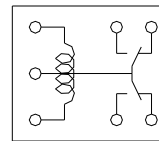
◆ Wiring Diagram

BOTTOM VIEW

Single contact

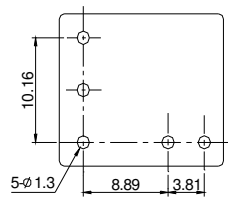


Double contacts

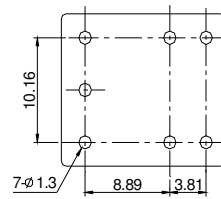


◆ PC BOARD LAYOUT

BOTTOM VIEW



S19 (Single contact)



S19W (Double contacts)