

### ◆ Features

- USA footprint and European footprint are both available.
- Design for Automotive and car alarm applications.
- Contact rating up to 40A/40VDC,70A/14VDC.
- 1 form A to 1 form C arrangements.



### ◆ 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	15.6	320	75% of rated voltage	10% of rated voltage	130% Max of Rated voltage	Approx.1.6W
6	22.5	267				
9	50	178				
12	90	133				
18	202	89				
24	358	67				
36	818	44				

### ◆ Contact Rating

Resistive load	40A 14VDC, 70A 14VDC
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### ◆ Type List

Terminal style	Contact form	Designation(provided with)	
		Open type	Sealed type washable
USA footprint	1A (SPNO)	S9U-12-A	S9U-12-AS
	1C(SPDT)	S9U-12-C	S9U-12-CS
	1A (SPNO)	S9UH-12-A	S9UH-12-AS
	1C(SPDT)	S9UH-12-C	S9UH-12-CS
Europe footprint	1A(SPNO)	S9E-12-A	S9E-12-AS
	1C(SPDT)	S9E-12-C	S9E-12-CS
	1A(SPNO)	S9EH-12-A	S9EH-12-AS
	1C(SPDT)	S9EH-12-C	S9EH-12-CS

# S9 RELAY

## SHORI

### ◆ Ordering information

S9 U H- 12 - A S  
 1 2 3 4 5 6

1. S9 -- Basic series designation

2. U -- USA footprint.

E -- Europe footprint

3. H --Contact rating (70A/14VDC)

Blank: Standard type (40A/14VDC)

3. 12 -- Coil Voltage (5V~36V)

4. A -- Form A, normally open (SPNO)

C -- Form C, Double-throw (SPDT)

5. S -- Sealed type washable

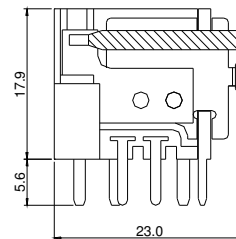
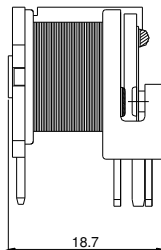
Blank: Open type

### ◆ Specification

Contact material	Ag Alloy	
Contact resistance	50 mΩ Max	
Operate time	5 ms Max	
Release time	4 ms Max	
Insulation resistance	50 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	20G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,200 operations/hr)
Operating ambient temperature	-30~+85°C (no freezing)	
Weight	Approx.20g	

### ◆ Outline dimensions

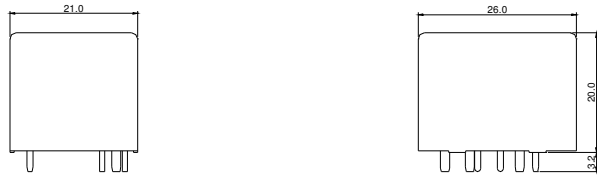
➤ S9U/S9UH Open type



➤ S9E/S9EH Open type



➤ S9U/S9UH Standard Type



➤ S9E/S9EH Standard Type



### ◆ Wiring Diagram

(USA footprint ) BOTTOM VIEW



(European footprint ) BOTTOM VIEW



### ◆ PC BOARD LAYOUT

BOTTOM VIEW

