



»»» Features

- Miniature PCB relays 15A/14VDC
- Available for open frame type or sealed flux free or sealed washable type.
- Single and twin relays are both available.
- Contact configurations of SPNC, SPNO, SPDT, SPDM-DB are available.
- General application for car alarm control, power window control, wiper control, door lock control, etc.

»»» Type List

Terminal style	Contact form	Internal	Designation			
			Open type	Flux tight	Sealed type	Sealed type washable
PCB terminal	SPNO	Single	861-1A	861-1A-C	861-1A-V	861-1A-S
	SPDM		861-2A	861-2A-C	861-2A-V	861-2A-S
	SPNC		861-1B	861-1B-C	861-1B-V	861-1B-S
	SPDB		861-2B	861-2B-C	861-2B-V	861-2B-S
	SPDT		861-1C	861-1C-C	861-1C-V	861-1C-S
	SPDM-DB		861-2C	861-2C-C	861-2C-V	861-2C-S
	SPNO	Twin	-----	861T-1A-C	861T-1A-V	861T-1A-S
	SPDM		-----	861T-2A-C	861T-2A-V	861T-2A-S
	SPNC		-----	861T-1B-C	861T-1B-V	861T-1B-S
	SPDB		-----	861T-2B-C	861T-2B-V	861T-2B-S
	SPDT		-----	861T-1C-C	861T-1C-V	861T-1C-S
	SPDM-DB		-----	861T-2C-C	861T-2C-V	861T-2C-S

»»» Ordering Information

861 T - 1A - C
 1 2 3 4

- | | | | |
|----------|-------------------------------|----------|---|
| 1. 861 | -- Basic series designation | 2A | -- Single pole double make |
| 2. Blank | -- Single relay | 2B | -- Single pole double break |
| T | -- Twin relay | 2C | -- Single pole double make-double break |
| 3. 1A | -- Single pole normally open | 4. Blank | -- Open type |
| 1B | -- Single pole normally close | C | -- Flux tight |
| 1C | -- Single pole double throw | V | -- Sealed type |
| | | S | -- Sealed type washable |

»» Contact Rating

Resistive load	SPNO	SPNC	SPDT
	15A/14VDC	10A/14VDC	NC:10A/14VDC , NO:15A/14VDC
	SPDM	SPDB	SPDM-DB
	10AX2/14VDC	7AX2/14VDC	DM:10AX2/14VDC , DB:7AX2/14VDC

»» Coil Rating(DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23°C (mA)	Coil resistance $\pm 10\%$ at 23°C (Ω)	Max. continuous voltage at 85°C ⁽¹⁾	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
6	187.5	32	125 % of rated voltage	60 % of rated voltage 67% (for 2C contact configuration only)	10 % of rated voltage	approx. 1.1W
9	123.2	73				
12	92.3	130				
24	46.1	520				

Note:(1)Continuous contact current at 10A.

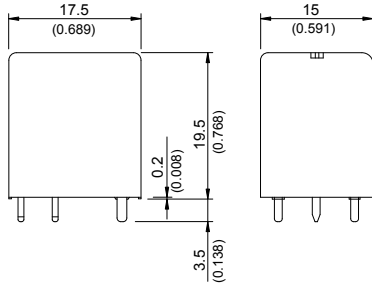
»» Specification

Contact material	AgSnO alloy	
Contact voltage drop ⁽¹⁾	Typ. 50mV at 10A	
Insulation resistance ⁽¹⁾	50M Ω Min. (DC 500V)	
Operate time ⁽¹⁾	4ms Max.	
Release time ⁽¹⁾	2ms Max.	
Dielectric strength ⁽¹⁾	Between open contact	: AC 500V , 50/60Hz 1 min.
	Between contact and coil	: AC 500V , 50/60Hz 1 min.
Vibration resistance	10~55Hz , amplitude 1.5 mm	
Shock resistance	10G , 11ms , half sine wave pulse	
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~+85°C (no freezing)	
Weight	Approx. 17.5g	

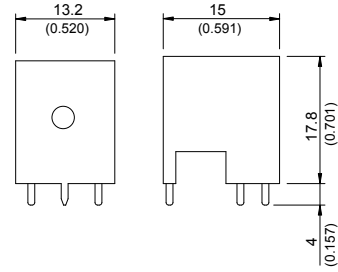
Note : (1) initial value

»» Outline Dimensions

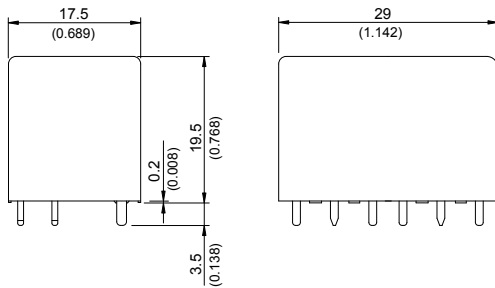
◆ 861



◆ 861 OPEN TYPE



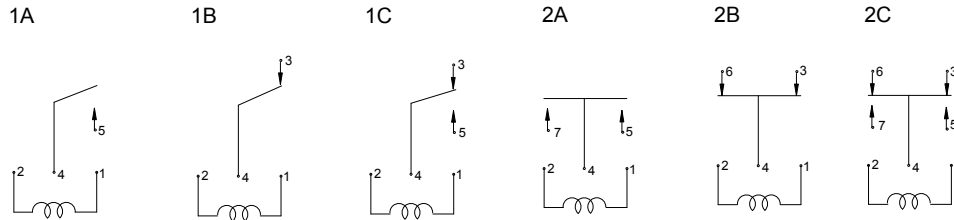
◆ 861T



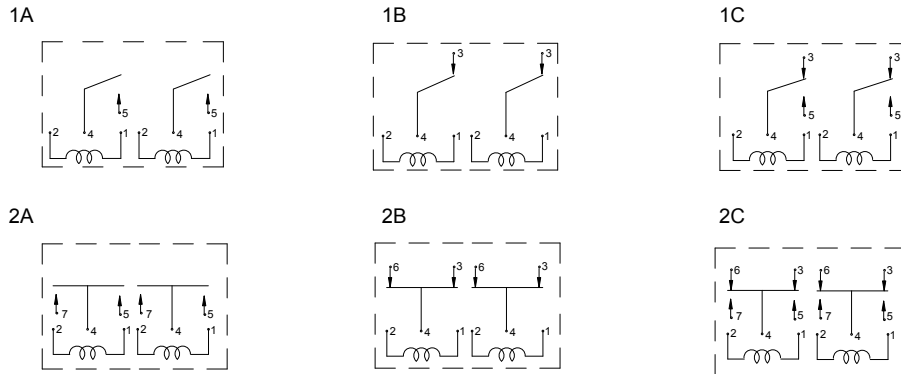
»» Wiring Diagram

BOTTOM VIEW

◆ 861

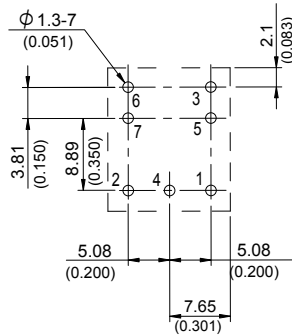


◆ 861T

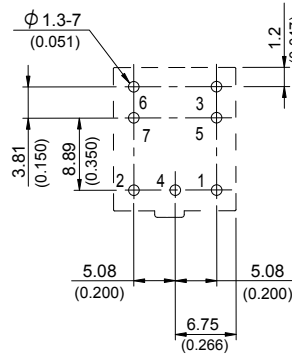


»» PC Board Layout BOTTOM VIEW

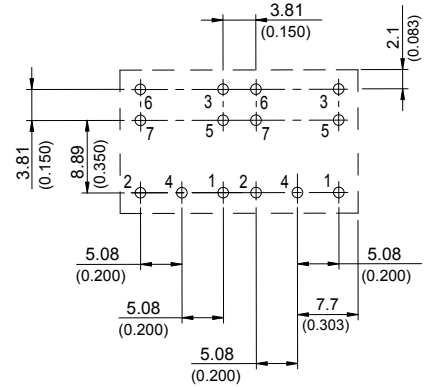
◆861



◆861 OPEN TYPE

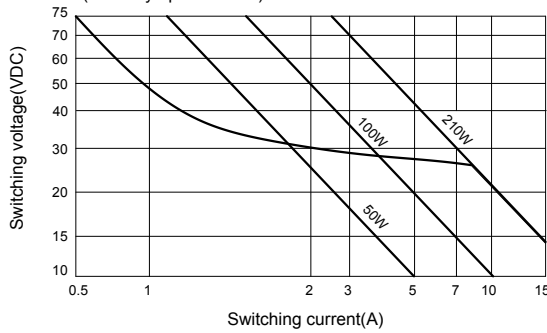


◆861T

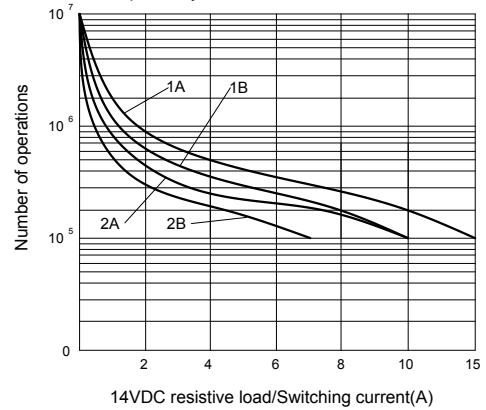


»» Engineering Data

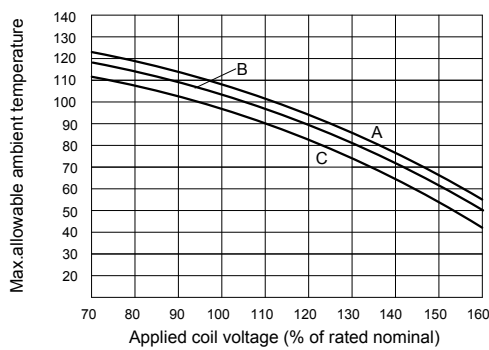
Safe breaking, arc extinguished
(normally open contact) for resistive loads.



Life expectancy



Ambient temperature vs coil voltage for continuous duty



A:7A B:10A C:15A Contact load(resistive)
Maximum mean coil temperature=155°C

Operate time/Release time

