



## K108 Series

8A SPST/ 5A DPST

5A 1X (1A + 1B)

Latching Relay



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## 8A Power Latching Relay

- Latching & non-Latching Available.
- High sensitivity
- RoHS Compliant
- Compact PCB Design
- Form 1A, 2A, 1X(1A+1B) Available
- Sealed IP67 and Flux proof type Available



## K108

### Specifications

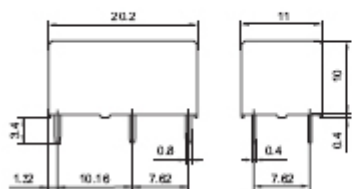
Contact Data			Characteristics	
Contact Arrangement	<b>1A</b>	<b>2A, 1X(1A+1B)</b>	Insulation resistance	1000MΩ (at 500VDC)
	8A / 440Vac	5A / 250Vac	Dielectric strength:	
	5A / 30Vdc	5A / 30Vdc	coil to contact	3000 Vac for 1 min.
Contact material	AgNi		across open contacts	1000 Vac for 1 min.
Initial contact resistance	50mΩ (1A@6Vdc)	<i>Non Gold Plated</i>	across contacts sets	2000 Vac for 1 min.
	30mΩ (1A@6Vdc)	<i>Gold Plated</i>	Dielectric Creepage: SPST	≥ 8mm
Rated Load	8A @ 250Vac	5A @ 250Vac	SPDT	≥ 6mm
	5A @ 30Vdc	5A @ 30Vdc	Operate time – non latching	10ms Max. (≈ 5ms)
			Release time – non latching	5ms Max. (≈ 3ms)
Max. Switching Voltage	380Vac / 125Vdc		Set time – latching	10ms Max. (≈ 5ms)
Max. Switching Current	8A	5A	Reset time - latching	10ms Max. (≈ 4ms)
Max. Switching Power	2000VA / 150W	1250VA / 150W	Operating temperature	-40 C to + 70°C
	8A		Storage temperature	-40 C to + 100°C
Expected life:			Ambient Humidity	5% - 85%
electrical (rated load)	1 x 10 <sup>5</sup> Operations (1 x Set + Reset)		Vibration	2.0mm (DA), 10~55 Hz
mechanical	1 x 10 <sup>7</sup> Operations (1 x Set + Reset)		Shock:	
			Functional	98m/s <sup>2</sup> (20g)
			Destructive	980m/s <sup>2</sup> (100g)
			Dimensions	20.2 x 11.0 x 10.4mm
			Unit Weight	Approx. 4.7g
			Termination	PCB
Coil data				
	Single Coil (Latching)	Dual Coil (Latching)	Non - Latching	
Coil consumption	150mW	300mW	300mW	300mW for non-Latching
Pulse Duration	Min.20ms (50mS Recommended)			
Nominal coil voltage	Min Operating voltage	Coil resistance (Ω ± 10%)		
		Single Coil (Latching)	Dual Coil (Latching)	Non- Latching
3Vdc	2.4Vdc	60Ω	30Ω	30Ω
5Vdc	4.0Vdc	167Ω	83Ω	83Ω
6Vdc	4.8Vdc	240Ω	120Ω	120Ω
9Vdc	7.2Vdc	540Ω	270Ω	270Ω
12Vdc	9.6Vdc	960Ω	480Ω	480Ω
24Vdc	19.2Vdc	3940Ω	1920Ω	1920Ω

## K108 Ordering Information

	<b>K108-</b>	<b>12</b>	<b>-1H</b>	<b>S</b>	<b>G</b>	<b>-L2-</b>	<b>-R</b>	<b>XXX</b>
<b>Relay Series</b>								
<b>Coil Voltage:</b>	3, 5, 6, 9, 12, 24Vdc							
<b>Contact Form</b>	<b>1H:</b> 1A <b>1HD:</b> 1X (1A+1B) <b>2H:</b> 2A							
<b>Construction</b>	<b>S:</b> Sealed <i>iP67</i> <b>0:</b> Flux Proof							
<b>Contact Plating</b>	<b>G:</b> Gold Plating <b>0:</b> No Gold Plating							
<b>Coil Type:</b>	<b>L1:</b> Single Coil - Latching <b>L2:</b> Double Coil - Latching <b>0:</b> Non - Latching							
<b>Coil Polarity:</b>	<b>R:</b> Reverse Polarity <b>0:</b> Standard Polarity							
<b>Special</b>	<b>551:</b> Lead Free <b>555:</b> RoHS Compliant							

## Outline Dimensions

Single side stable & 1 coil latching

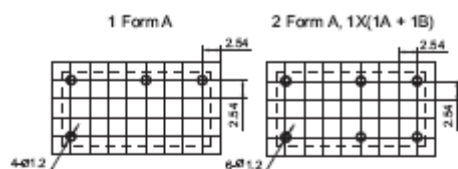


2 coils latching

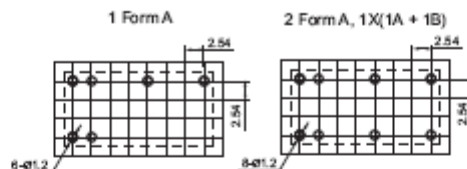


## PCB Layout

Single side stable & 1 coil latching

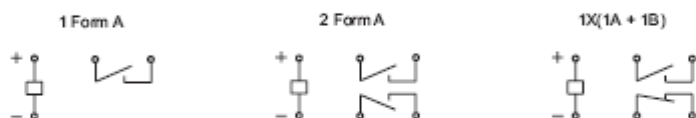


2 coils latching

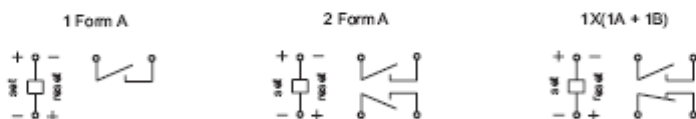


## Wiring Diagram (Bottom view)

Single side stable (Deenergized condition)



1 coil latching (Reset condition)



2 coils latching (Reset condition)

