KG Technologies™

K128

World Class Switching Solutions for Energy Management

200A POWER LATCHING RELAY

- 4,000V dielectric strength
- Outline dimensions: (59 x 63.3 x 29.3)mm
- RoHS compliant

Contact Data *Click here for glossary of terms*

Rated load	200A 250Vac / 28Vdc
Contact form	1A
Contact material	$AgSnO_2$
Max. switching voltage	440Vac
Max. switching current	200A
Electrical endurance	5,000 cycles
Mechanical endurance	50,000 cycles

Characteristics *Click here for glossary of terms*

Insulation resistance	1,000MΩ (at 500VDC)
Dielectric strength:	
Coil to contact	4,000 Vac for 1 min.
Across open contacts	2,000 Vac for 1 min.
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +100°C
Ambient humidity	5% - 98%RH
Vibration	1.5mm (DA), 10 to 55 Hz
Shock resistance:	
Functional*	10G
Destructive	100G
Unit weight	Approx. 210g
Termination	PCB

** Unit may change state but is still functional.*

Coil Data *Click here for glossary of terms*

	Single Coil	Dual Coil
Coil Consumption	5W	10W
Pulse Duration	Nom. 100ms (Vdc)	Nom. 100ms (Vdc)

		Coil Resistance (Ω ± 10%) @ 23°C	
Nominal Coil Voltage	**Minimum Operating Voltage**	**Single Coil**	**Dual Coil**
6Vdc	4.8Vdc	7.2Ω	2 x 3.6Ω
12Vdc	9.6Vdc	28.8Ω	2 x 14.4Ω

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Ordering Information

	K128	A	–	S	006	P	–	1A	T
Relay Series:									
Terminal Type:	A: See drawings[1] X: Custom design[2]								
Coil Type:	S: Single coil								
Coil Voltage[3]:	6 Vdc								
Coil Polarity:	P: Positive N: Negative								
Contact Form:	1A								
Contact Material:	T: $AgSnO_2$								

[1] Other standard terminal type drawings available upon request.

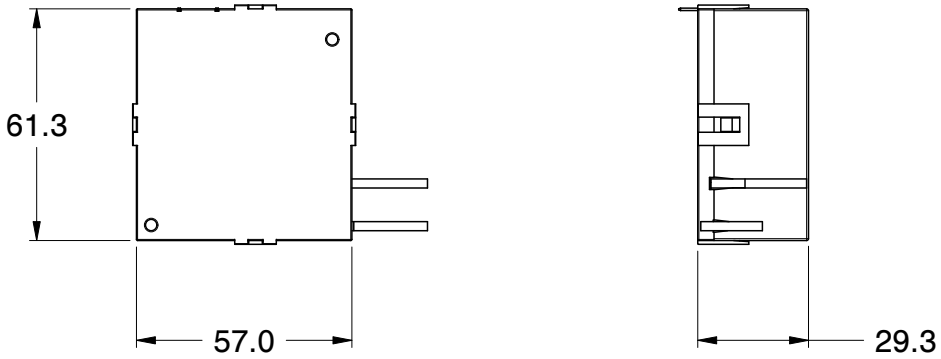
[2] For custom designs, please contact KG Technologies. Integrated shunts, flex-wire, copper extensions and brass terminals available.

[3] Coil voltage should be indicated in three digit format (6Vdc = 006)

Dimensional Drawings

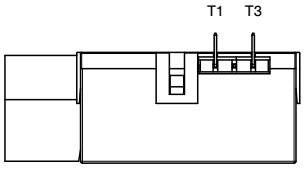
All dimensions in mm unless otherwise noted. For more information, please contact KG Technologies.

A-Style Terminals

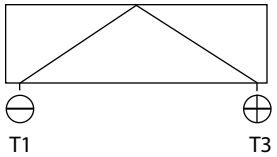


Wiring Diagrams

Single Coil



Single Coil Connection



Application Notes

Single Coil: Place a negative connection on T1. Then apply a 100ms positive pulse to T3 to close the contacts. Reversing polarity will open the contacts.

Additional Application Notes

1: All relays are shipped in the "Closed" position. It is possible that during transit or final assembly the relay could change its state to the "Open" position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.

2: In order to maintain an "Open" or "Closed" state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 100ms minimum to ensure a proper change of state. DO NOT energize both T1 and T3 at the same time on a Dual Coil or energize the coil for longer than 1 minute (damage to the coil could incur).

3: Relays without flex-wire cannot be tin-soldered. Moving or bending the terminals could cause damage to the internal structure of the relay.

4: For definitions of terms used in this data sheet, see glossary at www.kgtechnologies.net.