

G6E

Low Signal Relay

Features

- Unique moving loop armature reduces relay size, magnetic interference and contact bounce time
- Subminiature: 7.87 mm (.31 in.) H x 9.91 mm (.39 in.) W x 16.0 mm (.63 in.) L
- High sensitivity with pickup coil power of 98mW
- Surge withstand voltage meets FCC Part 68 rule
- Packaged for automatic insertion
- Minimal loss of latching capability due to highly efficient magnetic circuit; also, highly resistant to shock and vibration
- Sealed construction: allows automatic solder and cleaning; assures high reliability even in adverse environments
- Terminal arrangement fits international standard 100-mil grid
- Surge withstand voltage – meets FCC Part 68 Rule
- UL listed, CSA certified



Contact Data

Contact ratings 125 VAC, 0.4 A; 30 VDC, 2 A

Contact material Ag (Au clad)

Carry current 3 A

Maximum operating voltage 250 VAC, 220 VDC

Maximum operating current 3 A (AC), 3 A (DC)

Maximum switching capacity 50 VA, 60 W

Minimum permissible load 10 μ A, 10mVDC

Coil Data (% of rated voltage)

Pickup voltage 70% max.

Dropout voltage 10% min.

Set voltage 70% max.

Reset voltage 70% max.

Maximum voltage 190% at 23°C max.

Characteristic Data

Initial contact resistance 50m Ω max.

Operate time 5ms max. (mean value: approx. 2.9ms)

Release time 5ms max. (mean value: approx. 1.3ms)

Set time – latching 5ms max. (mean value: approx. 1.3ms)

Reset time – latching 5ms max. (mean value: approx. 1.3ms)

Insulation resistance 1,000M Ω min. (at 500 VDC)

Dielectric strength

Between coil and contacts: 1,500 VAC, 50/60 Hz for 1 minute

Between contacts of same pole: 1,000 VAC, 50/60 Hz for 1 minute

Surge withstand voltage

1,500 V 10 x 160 μ s (conforms to FCC Part 68)

2,500 V 2 x 10 μ s (Bellcore TA-NWT-001089)

Ambient temperature -40° to 70°C

Service life

Mechanical: 100,000,000 operations min.

(at operating frequency of 36,000 operations/hour)

Electrical: 500,000 operations min. at 2 A, 30 VDC

Construction Data

Termination PCB terminals

Construction Fully-sealed

Weight .095 oz. (2.7 g)

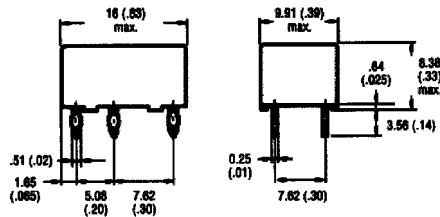
Packaging method Tubes

Ordering Information

Part number	Rated voltage (V)	Coil res. (Ohms)	Power (mW)	Contact form	Type	
G6E-134P-ST-US	-DC5	5 DC	125	200	SPDT	Non-Latching
	-DC12	12 DC	720	200	SPDT	Latching
	-DC24	24 DC	2,880	200	SPDT	Sealed
	-DC48	48 DC	5,760	400	SPDT	Sealed
G6E-134P-ST-US-H-DC48	48 DC	11,520	200	SPDT	Non-Latching Sealed	
G6EK-134P-ST-US-DC5	-DC5	5 DC	125	200	SPDT	Dual
	-DC12	12 DC	720	200	SPDT	Coil
	-DC24	24 DC	2,880	200	SPDT	Latching Sealed

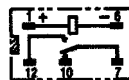
Note: Latching versions, and low-sensitivity (400mW) version available.

Dimensions [Unit: mm (inch)]

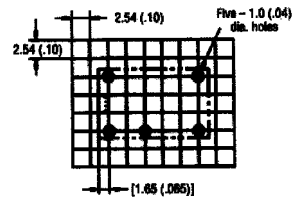


Non-Latching

Terminal arrangement/ Internal connections (bottom view)

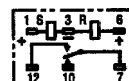


Mounting holes (bottom view) Tolerance: ± 0.1

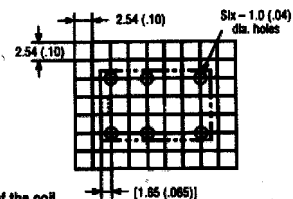


Dual Coil Latching

Terminal arrangement/ Internal connections (bottom view)



Mounting holes (bottom view)



Note: 1. Pay attention to the polarity of the coil.
2. and indicate mounting orientation marks.