FL (SP)

Low Signal Relay

- Fourth generation design.
- Design based on worldwide communications, computer peripheral and office automation relay requirements.
- Offers excellent board space savings.
- Meets 2.5 kV Bellcore surge requirements.
- Terminal design based on Omron's successful G6S relay.
- Available in PCB through-hole, SMT gullwing and SMT "inside-L" terminals.
- Ambient temperature range of -40 to +85°C.
- Complies with UL1950 Basic Insulation at 125 V.
- Available in 2.54 and 3.2 mm coil-contact terminal spacing versions.
- Available in single coil latching.
- RoHS Compliant.

Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G6K-2F-DC5).

Terminal	Contact form	Model			
WWW.	100Y.COM.TW	Non-latching 2.54 mm spacing	Non-latching 3.2 mm coil-contact terminal spacing	Single coil latching 3.2 mm coil-contact terminal spacing	Ľ,
Gullwing	DPDT	G6K-2F	G6K-2F-Y	G6KU-2F-Y	1
Inside "L"	DPDT	G6K-2G	G6K-2G-Y	G6KU-2G-Y	
PCB through-hole	DPDT	G6K-2P	G6K-2P-Y	G6KU-2P-Y	1

Specifications

Contact data

Load	Resistive load (cos	N.Ive
Rated load	0.3 A at 125 VAC	100%
Mar.	1 A at 30 VDC	WWW.
Contact material	Ag (Au clad)	W.100
Max. carry current	1 A	10
Max. operating voltage	125 VAC, 60 VDC	WWW.
Max. operating current	1 A	.Ww
Max. switching capacity	37.5 VA, 30W	W
Min. permissible load	10 μA at 10 mVDC	WWW.
	WWW.100X.COM.TW WWW.100X.COM.TW WWW.100X.COM.TW WWW.100X.COM.TW WWW.100X.COM.TW	MMM



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G6K- 2.5 mm coil-contact terminal spacing, standard, non-latching (G6K-2F, G6K-2G, G6K-2P) G6K- 3.2 mm coil-contact terminal spacing, non-latching (G6K-2F-Y, G6K-2G-Y, G6K-2P-Y)

Rated voltage	Rated current	Coil resistance	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC) (mA)		(Ω)	% of rated value			(mW)
3	33.0	91	80% max.	10% min.	150% max.	100 (approx.)
4.5	23.2	194	UN NI	N 1001.0	(at 85°C)	
5	21.1	237	N = NT	NW. ONY.CO	WT	
6	17.6	341		WW.100 CO	N.	
9	11.3	795	NTN 1	1001.0	MIT	
12	9.1	1,315	WT	WWWW. OOY.	WT	
24	4.6	5,220	M.L	WW.Ioo	COM.	

G6KU- 3.2 mm spacing, single coil latching (G6KU-2F-Y, G6KU-2G-Y, G6KU-2P-Y)

Rated voltage	Rated current	Coil resistance	Set-up voltage	Reset voltage	Maximum voltage	Power consumption
(VDC) (mA)		(Ω)	% of rated value			(mW)
3	33.0	91	80% max.	80 % min.	150% max.	100 (approx.)
4.5	23.2	194	COM.	I.WW.I	(at 85°C)	
5	21.1	237	N. I.	W	1001. ONITY	
6	17.6	341	WT.COM TW	WWW	MANY.COM	N
9	11.3	795	COM	WW.	LICONT.	N.
12	9.1	1,315	N.T.		1001. ON!	
24	4.6	5,220	NOV.COM	WW W	1007.001	NT I

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ± 10%.

- 2. The operating characteristics are measured at a coil temperature of 23°C (73°F) unless otherwise specified. WWW.100Y.COM
- 3. Pick-up voltage is measured with no carry current across the contacts.
- 4. Pick-up voltage will vary with temperature.
- 5. Specifications subject to change without notice.

■ Characteristics

Contact resistance (in	itial)	100 mΩ max.	
Operate time (set time		3 ms max.	
Release time (reset tin	ne)	3 ms max.	
Bounce time	S CONT.	3 ms max	
Insulation resistance	M.I.	1,000 MΩ min. (at 500 VDC)	
Dielectric strength		1,500 VAC for 1 minute between coil contacts 1,000 VAC for 1 minute between contacts of different poles 750 VAC for 1 minute between contacts of the same pole	
Surge withstand voltage		2,500 V, 2x10 μ s (conforms to Bellcore specifications) between coil and contacts 1,500 V, 10x160 μ s (conforms to FCC Part 68) between contacts of different poles 1,500 V, 10x160 μ s (conforms to FCC Part 68) between contacts of the same pole	
Vibration	Mechanical durability	10 to 55 Hz; 5.0 mm double amplitude	
	Malfunction durability	10 to 55 Hz; 3.3 mm double amplitude	
Shock	Mechanical durability	1,000 m/s ² , approx. 100G	
	Malfunction durability	750 m/s², approx. 75G	
Ambient temperature		-40°C to 85°C (-40°F to 185°F)	
Humidity		35 to 85% RH	
Service life	Mechanical	50,000,000 operations min. (at 36,000 operations per hour)	
	Electrical	100,000 operations min. at rated load (at 1,800 operations per hour)	

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■ Characteristic data

Max. Switching Capacity





Ambient Temperature vs. Pick-up and Dropout Voltage



Electrical Service Life







High-frequency Characteristics

Isolation



Insertion Loss



VSWR and Return Loss



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■ Approvals

UL (File No. E41515) / CSA (File No. LR24825)

Туре	Contact form	Coil rating	Contact ratings
G6K-2F	DPDT	3 to 24 VDC	0.3 A, 125 VAC
G6K-2G	W. Jos COM.	CONT.	0.5 A, 60 VDC
G6K-2P1	TINOY. CONTRACTOR	W 1001. ON	1 A, 30 VDC
G6K-2F-Y	NW TO OVER TW	WWW. ONY.COM	NT.N
G6K-2G-Y	100 L COM.1	W.100 CO	1.1
G6K-2P-Y	NT I ODY. CONTR	WW 1002.0	N. I. M.
G6KU-2F-Y	WW. 10° CONL	WWW.L	Mar W
G6KU-2G-Y	N 1 1001. OM. TW	V. 100 F.	OM.
G6KU-2P-Y	WWW. ONY.COM TW	WWW TOOX.C	WTW -

Note: Complies with UL1950 Basic Insulation at 125 V (pollution degree 1 for internal spacings, pollution degree 2 for external spacings).

Dimensions

Unit: mm (inch)

Relays

G6K-2F



Terminal arrangement/ Internal connections (top view)



Mounting pads (top view)



G6K-2G



0.5

(0.02)







Mounting pads (top view)



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0.3 (0.012)

4.9

(0.19)

G6K-2P



G6K-2F-Y





10 ±0.2

(0.39)

4

5

(0.20)

0.1

0.003)

3.5

(0.14)

1.2 (0.04)

- 3.2 (0.12) - 5.4 (0.21) 7.6 (0.30)



6.5 +0.2

- (0.26)

5.08

Terminal arrangement/ Internal connections (bottom view)

Orientation mark 8 6

Mounting pads (bottom view)



Terminal arrangement/ Internal connections (top view)



Mounting pads (top view)



G6K-2G-Y



0.5 (0.02)

0.4 (0.016)



6.5 +0.2

- (0.26) -

5.08 ±0.15

(0.20)

Internal connections (top view)

Terminal arrangement/



Terminal arrangement/

з 4

6

Orientation mark

Internal connections

(bottom view)

8

Mounting pads (top view)



Mounting pads (bottom view)



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G6K-2P-Y





G6KU-2F-Y



10 ±0.2

(0.39)

0.5

(0.02)



6.5 ±0.2 (0.26)-

- 4.9

(0.19)

0.3 (0.012)

5.2 ±0.2 (0.20)

¥. .06)

1.2 (0.04)

3.2 (0.12)

5.4 (0.21)

7.6 (0.30)

Terminal arrangement/ Internal connections (top view)



Mounting pads (top view)



Terminal arrangement/ Internal connections (top view)



Mounting pads (top view)



G6KU-2P-Y

G6KU-2G-Y

GEKU-2G-Y-





Terminal arrangement/ Internal connections (bottom view)



Mounting pads (bottom view)



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Accessories

Relays in tube packing are arranged so that the orientation mark of each Relay is on the left side. Be sure to reference Relay orientation when mounting the Relay to the PCB.

Tube packing	Standard nomenclature	50 pcs per anti-static tube
Tape packing	When ordering, add "TR" before the rated coil voltage (e.g., G6K-2G-TR-DC5).	900 pcs per reel
M.T.Y	Note: TR is not part of the relay model number and will not be marked on the relay.	(see details below)

Tape and Reel Dimensions

- Tape type: ETX7200 (EIAJ Electronic Industrial Association of Japan)
- 16 mm tape meets EIA Standards 5.6 mm pocket depth
- 12 mm pitch
- 4 mm sprocket pitch
- Reel type: RPM-16D (EIAJ), 330 mm
- Relays per reel: 900
- 1. Direction of Relay Insertion



2. Reel Dimensions



	* 6.9 *
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Precautions

Correct Use

Handling

Do not unpack the relay until mounting it.

Soldering

Solder: JIS Z3282, H63A or equivalent

Soldering temperature: Approx. 250°C (260°C if the DWS method is used)

Soldering time: Approx. 5 s max. (approx. 2 s for the first time and approx. 3 s for the second time if the DWS method is used)

Be sure to make a molten solder level adjustment so that the solder will not overflow on the PCB.

Claw Securing Force During Automatic Mounting

During automatic insertion of Relays, make sure to set the securing force of each claw to the following so that the Relays characteristics will be maintained.



Environmental Conditions During Operation, Storage, and Transportation

It is best to keep the relay in its packaging in a controlled environment until it is ready for mounting.

If the Relay is stored for a long time in an adverse environment with high temperature, high humidity, organic gases, or sulfide gases, sulfide or oxide films will form on the contact surfaces. These films may result in unstable contact, contact problems, or functional problems. Therefore, operate, store, or transport the product under specified environmental conditions.

Latching Relay Mounting

Make sure that the vibration or shock that is generated from other devices, such as relays in operation, on the same panel and imposed on the Latching Relay does not exceed the rated value, otherwise the Latching Relay that has been set may be reset or vice versa. The Latching Relay is reset before shipping. If excessive vibration or shock is imposed, however, the Latching Relay may be set accidentally. Be sure to apply a reset signal before use.

Maximum Allowable Voltage

The maximum allowable voltage of the coil can be obtained from the coil temperature increase and the heat-resisting temperature of coil insulating sheath material. (Exceeding the heat-resisting temperature may result in burning or short-circuiting.) The maximum allowable voltage also involves important restrictions which include the following:

- Must not cause thermal changes in or deterioration of the insulating material.
- Must not cause damage to other control devices.
- Must not cause any harmful effect on people.
- Must not cause fire.

Therefore, be sure to use the maximum allowable voltage as specified in the catalog.

As a rule, the rated voltage must be applied to the coil. A voltage exceeding the rated value, however, can be applied to the coil provided that the voltage is less than or equal to the maximum allowable voltage. It must be noted that continuous voltage application to the coil will cause a coil temperature increase which may affect characteristics such as electrical life and coil insulation.

Coating

The Relay mounting on the PCB may be coated or washed but do not apply silicone coating or detergent containing silicone, otherwise the silicone coating or detergent may remain on the surface of the Relay.

PCB Mounting

If two or more Relays are closely mounted with the long sides of the Relays facing each other and soldering is performed with infrared radiation, the solder may not be properly exposed to the infrared rays. Be sure to keep the proper distance between adjacent Relays as shown below to insure formation of good solder joints.



Two or more Relays may be mounted as closely as desired with the short sides of the Relays facing each other.

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- - paid by Buver:
- Delivery and shipping dates are estimates only.
 Delivery and shipping dates are estimates only.
 Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
 <u>Claims</u>. Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Soltex within 20 days of range to delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original trans-portation bill signed by the carrier noting that the carrier received the Products from Seller in the condition claimed. WWW.100Y.CO

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- 6 of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Sub stances ("RoHS"), although the requirements of RoHS do not take effect until July 2006. These requirements may be subject to change. Please consult ou working for current information. website for current information.

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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