

# OMRON Low Signal Relays



## OMRON G6E SERIES: 3A SPDT LOW SIGNAL RELAYS

This product is RoHS compliant.

### Features:

- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time
- Conforms to FCC part 68 voltage surge
- Bifurcated crossbar assures high reliability
- Highly resistant to shock and vibration

### Specifications:

- Contact resistance: 50mΩ max.
- Contact material: Ag (Au clad)
- Power consumption: Standard coil - 200mW; Low-sensitivity coil - 400mW



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr. (mA)	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
<b>Standard, Non-Latching Coil</b>									
653-G6E-134P-STUSDC3	G6E-134P-ST-US-DC3	A1	66.7	3	45	4.70	4.23	3.76	3.39
653-G6E-134P-DC5	G6E-134P-ST-US-DC5	A1	40	5	125	3.84	3.47	3.09	2.78
653-G6E-134P-DC9	G6E-134P-ST-US-DC9	A1	22.20	9	405	4.23	4.09	3.63	3.38
653-G6E-134P-DC12	G6E-134P-ST-US-DC12	A1	16.7	12	720	3.25	3.04	2.92	2.78
653-G6E-134P-DC24	G6E-134P-ST-US-DC24	A1	8.30	24	2,880	3.83	3.58	3.32	2.98
<b>Low-Sensitivity, Non-Latching Coil</b>									
653-G6E-134PL-DC5	G6E-134PL-ST-US-DC5	A1	79.4	5	63	4.10	3.89	3.60	3.20
653-G6E-134PL-DC12	G6E-134PL-ST-US-DC12	A1	33.3	12	360	3.67	3.34	3.20	3.09
653-G6E-134PL-DC24	G6E-134PL-ST-US-DC24	A1	16.7	24	1440	4.10	3.89	3.60	3.20
<b>Standard, Latching Dual Coil</b>									
653-G6EK-134P-DC12	G6EK-134P-ST-US-DC12	A2	16.7	12	720	5.36	4.87	4.38	3.86
653-G6EK-134P-DC24	G6EK-134P-ST-US-DC24	A2	8.3	24	2880	5.78	5.48	4.89	4.53

## OMRON G6H SERIES: 1A DPDT LOW SIGNAL RELAYS

### Specifications:

- Contact resistance: 50mΩ max.
- Carry current: 1A
- Power consumption: Standard and High-Reliability non-latching coil: 3, 5, 9, and 12V - 140mW
- Standard non-latching dual coil: 24V - 200mW, 48V - 300mW
- Standard latching dual coil: 3, 5, 9, and 12V - 200mW, 24V - 300mW
- Standard latching single coil: 5 and 12V - 100mW
- Standard latching coil: 24V - 150mW
- DPDT Contact Form

### Features:

- Omron's unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time
- Bifurcated crossbar assures high reliability
- Highly resistant to shock and vibration
- Low thermoelectromotive force
- Low magnetic interference allows for high density mounting



RoHS Compliant

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr. (mA)	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
<b>Standard Non-Latching Coil, PCB Thru-Hole</b>									
653-G6H-2-DC3	G6H-2-DC3	B3	46.7	3	64.3	3.41	3.19	3.07	2.84
653-G6H-2-DC5	G6H-2-DC5	B3	28.1	5	178	3.41	3.19	3.07	2.84
653-G6H-2-DC9	G6H-2-DC9	B3	15.5	9	579	3.41	3.19	3.07	2.84
653-G6H-2-DC12	G6H-2-DC12	B3	11.7	12	1028	3.40	3.19	3.07	2.84
653-G6H-2-DC24	G6H-2-DC24	B3	8.3	24	2880	3.57	3.21	3.04	2.85
653-G6H-2-DC48	G6H-2-DC48	B3	6.3	48	7680	4.74	4.42	3.12	2.96
<b>High Reliability Non-Latching Coil, PCB Thru-Hole</b>									
653-G6H-2-100DC5	G6H-2-100 DC5	B3	28.1	5	178	2.78	2.61	2.45	2.39
653-G6H-2-100DC12	G6H-2-100 DC12	B3	11.7	12	1,028	2.75	2.61	2.45	2.39
<b>Standard Non-Latching Coil, SMT Gull-Wing Termination</b>									
653-G6H-2F-DC3	G6H-2F-DC3	C3	46.7	3	64.3	3.36	3.27	2.92	2.83
653-G6H-2F-DC5	G6H-2F-DC5	C3	28.1	5	178	4.16	3.75	3.55	3.33
653-G6H-2F-DC12	G6H-2F-DC12	C3	11.7	12	1028	4.16	3.75	3.55	3.33
653-G6H-2F-DC24	G6H-2F-DC24	C3	8.3	24	2880	4.16	3.75	3.55	3.33
<b>Standard Latching Single Coil, PCB Thru-Hole</b>									
653-G6HU-2-DC5	G6HU-2-DC5	B4	20	5	250	4.30	3.87	3.67	3.44
653-G6HU-2-DC12	G6HU-2-DC12	B4	8.3	12	1440	4.73	4.41	4.25	3.94
653-G6HU-2-DC24	G6HU-2-DC24	B4	6.25	24	3,840	3.94	3.81	3.65	3.16
<b>Standard Latching Dual Coil, PCB Thru-Hole</b>									
653-G6HK-2-DC3	G6HK-2-DC3	B5	66.7	3	45	4.14	3.87	3.72	3.65
653-G6HK-2-DC5	G6HK-2-DC5	B5	40	5	125	4.14	3.87	3.72	3.65
653-G6HK-2-DC9	G6HK-2-DC9	B5	22.2	9	405	4.14	3.87	3.72	3.45
653-G6HK-2-DC12	G6HK-2-DC12	B5	16.7	12	720	4.14	3.87	3.72	3.45
653-G6HK-2-DC24	G6HK-2-DC24	B5	12.5	24	1920	4.45	4.15	4.01	3.69

## OMRON G6S SERIES: 2A DPDT LOW SIGNAL RELAYS

### Features:

- Design based on worldwide communications, office automation, and computer peripheral relay requirements
- Conforms to FCC Part 68
- DPDT Contact Form

### Specifications:

- Contact resistance: 75mΩ max.
- Max. carry current: 2A
- Power consumption: 5 and 12VDC - 140mW; 24VDC - 200mW



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr. (mA)	Coil VDC	Coil Res. (Ω)	Price Each			
						1	25	50	100
<b>SMT Gull-Wing, Non-Latching</b>									
653-G6S-2F-DC3	G6S-2F-DC3BYOMR	D6	46.7	3	64.3	2.79	2.48	2.42	2.30
653-G6S-2F-DC5	G6S-2F-DC5	D6	28.1	5	178	4.83	3.94	3.46	3.24
653-G6S-2F-DC12	G6S-2F-DC12	D6	11.7	12	1028	4.33	3.79	3.52	3.34
653-G6S-2F-DC24	G6S-2F-DC24	D6	8.3	24	2880	5.78	5.37	4.99	4.70
<b>SMT Gull-Wing, Dual Coil Latching</b>									
653-G6SK-2F-DC5	G6SK-2F-DC5	D7	40	5	125	2.81	2.74	2.60	2.32
<b>SMT Inside "L", Non-Latching</b>									
653-G6S-2G-DC5	G6S-2G-DC5	E6	28.1	5	178	8.84	7.83	6.63	5.62
<b>PCB Thru-Hole, Non-Latching</b>									
653-G6S-2-DC5	G6S-2-DC5	F8	28.1	5	178	2.15	1.91	1.76	1.65
653-G6S-2-DC12A	G6S-2-DC12	F8	11.7	12	1028	2.79	2.65	2.51	2.30
<b>PCB Thru-Hole, Single Coil Latching</b>									
653-G6SU-2-DC3	G6SU-2-DC3	D6	33.3	3	90	3.95	3.62	2.52	2.25
<b>PCB Thru-Hole, Dual Coil Latching</b>									
653-G6SK-2-DC5	G6SK-2-DC5	F9	40	5	125	3.10	2.93	2.75	2.68
<b>PCB Thru-Hole, High Sensitivity Dual Coil Latching</b>									
653-G6SK-2-H-DC5	G6SK-2-H-DC5	F9	28.1	5	78	2.81	2.74	2.60	2.32

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