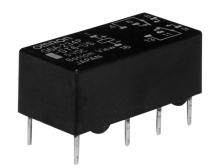
# Low Signal Relay

- High sensitivity -- can be driven by digital circuits.
- Low-profile design allows use in 12.70 mm (0.50 in) PC board rack.
- Surge withstand voltage meets FCC Part 68 regulation.
- Units can be mounted side by side due to low magnetic leakage.
- Special models available for ultrasonic cleaning and low thermoelectromotive force.
- Unique moving loop (permanent magnet) armature reduces relay size, magnetic interference, and contact bounce time.
- Single or dual coil winding types available.





# **Ordering Information**

To Order: Select the part number and add the desired coil voltage rating, (e.g., G6A-274P-ST-US-DC12).

## ■ Non-latching

Туре	Contact form	Model				
		AgPd (Au clad)	Ag (Au clad)			
Standard	DPDT	G6A-234P-ST-US	G6A-274P-ST-US			
	4PDT	G6A-434P-ST-US	G6A-474P-ST-US			
High-sensitivity	DPDT	G6A-234P-ST15-US	G6A-274P-ST15-US			
	4PDT	G6A-434P-ST20-US	G6A-474P-ST20-US			
Low-sensitivity	DPDT	G6A-234P-ST40-US	G6A-274P-ST40-US			
	4PDT	G6A-434P-ST40-US	G6A-474P-ST40-US			

## **■** Latching

## Single Coil

Туре	Contact form	Model		
		AgPd (Au clad)	Ag (Au clad)	
Standard	DPDT	G6AU-234P-ST-US	G6AU-274P-ST-US	
	4PDT	G6AU-434P-ST-US	G6AU-474P-ST-US	

## **Dual Coil**

Туре	Contact form	Contact form Model			
		AgPd (Au clad)	Ag (Au clad)		
Standard	DPDT	G6AK-234P-ST-US	G6AK-274P-ST-US		
	4PDT	G6AK-434P-ST-US	G6AK-474P-ST-US		
Low-sensitivity	DPDT	G6AK-234P-ST40-US	G6AK-274P-ST40-US		
	4PDT	G6AK-434P-ST40-US	G6AK-474P-ST40-US		

Note: Other options available for ST10 ultra high reliability, high temperature 85°C (185°F), ST1 reverse coil polarity, BS British standard. Contact your OMRON sales representative for details.

# **Specifications**

## **■** Contact Data

Туре	G6AK-234P-ST(40)-US	, G6A-434P-ST(20,40)-US , G6AK-434P-ST(40)-US , G6AU-434P-ST-US	G6A-274P-ST(15,40)-US, G6A-474P-ST(20,40)-US G6AK-274P-ST(40)-US, G6AK-474P-ST(40)-US G6AU-274P-ST-US, G6AU-474P-ST-US			
Load	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)		
Rated load	0.30 A at 125 VAC, 1 A at 30 VDC	0.20 A at 125 VAC, 0.50 A at 30 VDC	0.50 A at 125 VAC, 2 A at 30 VDC	0.25 A at 125 VAC, 1 A at 30 VDC		
Contact material	AgPd (Au clad)	AgPd (Au clad)	Ag (Au clad)	Ag (Au clad)		
Carry current	3 A	3 A	3 A	3 A		
Max. operating voltage	250 VAC, 220 VDC	250 VAC, 220 VDC	250 VAC, 220 VDC	250 VAC, 220 VDC		
Max. operating current	2 A	1 A	2 A	1 A		
Max. switching capacity	125 VA, 60 W	62.50 VA, 30 W	125 VA, 60 W	62.50 VA, 30 W		
Min. permissible load	10 μA, 10 mVDC	10 μA, 10 mVDC	10 μA, 10 mVDC	10 μA, 10 mVDC		

## **■** Coil Data

## Standard Non-latching DPDT (G6A-234P-ST-US, G6A-274P-ST-US)

Rated voltage	voltage current resistance		Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC)	(mA)	(Ω)	Armature Armature % of rated voltage OFF ON		(mW)			
3	66.70	45	0.07	0.07	70% max.	10% min.	200%	Approx. 200
5	40	125	0.20	0.18			at 23°C	
6	33.30	180	0.29	0.26			(73°F)	
9	22.20	405	0.63	0.57			150%	
12	16.70	720	1.10	1.06			at 70°C (158°F)	
24	8.30	2,880	4.50	4.10				
48	4.90	9,750	13.70	12.50	1			Approx. 235

## High-sensitivity Non-latching DPDT (G6A-234P-ST15-US, G6A-274P-ST15-US)

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDČ)	(mA)	(Ω)	Armature OFF	Armature % of rated voltage ON		ge	(mW)	
1.50	100	15	0.02	0.02	80% max.	10% min.	200%	Approx. 150
3	50	60	0.09	0.08	1			
4.50	33.30	135	0.22	0.20	1			
5	30	167	0.25	0.21				
6	25	240	0.35	0.31				
9	16.70	540	0.80	0.70				
12	12.50	960	1.35	1.25				
24	6.30	3,840	5.60	5.10				
48	3.20	15,000	22.50	20.00				

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

## Low-sensitivity Non-latching DPDT (G6A-234P-ST40-US, G6A-274P-ST40-US)

Rated voltage	Rated Coil current resistance			Coil inductance (ref. value) (H)		Dropout voltage	Maximum voltage	Power consumption (mW)
(VDC) (mA)		(Ω)	Armature OFF	Armature ON	9/	% of rated voltage		
3	133.30	22.50	0.03	0.02	70% max.	10% min.	150%	Approx. 400
5	80	62.50	0.08	0.07			at 23°C (73°F)	
6	66.70	90	0.11	0.10	1			
9	44.30	203	0.27	0.23	1			
12	33.30	360	0.52	0.43	1		110%	
24	16.70	1,440	2.10	1.80	1		at 70°C	
48	8.30	5,760	7.50	6.40		(158°F)		

## Standard Non-latching 4PDT (G6A-434P-ST-US, G6A-474P-ST-US)

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption
(VDC) (mA)		(Ω)	(Ω) Armature OFF		%	(mW)		
3	120	25	0.05	0.05	70% max.	10% min.	150%	Approx. 360
5	72.50	69	0.14	0.12			at 23°C (73°F)	
6	60	100	0.20	0.17				
9	40	225	0.45	0.38				
12	30	400	0.80	0.68			110%	
24	15	1,600	3.20	2.70			at 70°C	
48	7.50	6,400	12.80	10.90	]		(158°F)	

## High-sensitivity Non-latching 4PDT (G6A-434P-ST20-US, G6A-474P-ST20-US)

Rated voltage	Rated current	Coil resistance		uctance lue) (H)	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
(VDC)	(VDC) (mA) $(\Omega)$		Armature OFF	Armature ON	9/	% of rated voltage		
3	66.70	45			70% max.	10% min.	200%	Approx. 200
5	40	125					at 50°C (122°F)	
6	33.30	180					(122 F)	
9	22.20	405						
12	16.70	720						
24	8.30	2,880			]			
48	4.20	11,520						

## Low-sensitivity Non-latching 4PDT (G6A-434P-ST40-US, G6A-474P-ST40-US)

Rated voltage	Rated current (mA)	Coil resistance		luctance llue) (H)	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption			
(VDC)		(Ω)	Armature OFF	Armature ON		% of rated volta	ge	(mW)			
3	133.30	22.50	0.04	0.02	70% max.	10% min.	% min. 150% at 23°C (73°F)	Approx. 400			
5	80	62.50	0.12	0.09							
6	66.70	90	0.17	0.13							
9	44.30	203	0.42	0.30							
12	33.30	360	0.70	0.52			110%				
24	16.70	1,440	2.80	2.20			at 70°C				
48	8.30	5,760	10.20	8.60			(158°F)				

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

## Standard Single Coil Latching DPDT (G6AU-234P-ST-US, G6AU-274P-ST-US)

Rated voltage	Rated current	Coil resistance (Ω)		Coil inductance (ref. value) (H)		Reset pick-up voltage	Maximum voltage	Power consumption
(VDC)	(VDC) (mA)		Armature OFF	7				(mW)
3	33.70	89	0.15	0.11	70% max.	70% min.	200%	Approx. 100
5	20	250	0.44	0.35			at 23°C (73°F)	
6	16.70	360	0.64	0.48	1			
9	11.10	810	1.38	1.07				
12	8.30	1,440	2.50	2	1		150%	
24	4.20	5,760	9.20	7.20	1		at 70°C	
48	2.50	19,000	28.50	22	1		(158°F)	Approx. 120

## Standard Dual Coil Latching (G6AK-234P-ST-US, G6AK-274P-ST-US)

Rated voltage	Rated current		Coil inductance (ref. value) (H)				Set pick-up	Reset pick-up	Maximum voltage	Power consumption
(VDC)	(mA)	<b>(</b> Ω <b>)</b>	Set	coil	Rese	t coil	voltage	voltage		(mW)
			Armature OFF	Armature ON	Armature OFF	Armature ON	9	% of rated volta	је	
3	66.70	45	0.04	0.03	0.03	0.04	70% max.	70% min.	200%	Approx. 200
5	36	139	0.11	0.08	0.08	0.11			at 23°C (73°F)	Approx. 180
6	30	200	0.16	0.12	0.12	0.16			(73 F)	
9	20	450	0.38	0.28	0.28	0.38				
12	15	800	0.60	0.45	0.45	0.60		150% at 70°C	150%	
24	7.50	3,200	2.10	1.50	1.50	2.10				
48	4.20	11,520	8.50	6.30	6.30	8.50			(158°F)	Approx. 200

## Dual Coil Latching Low-sensitivity DPDT (G6AK-234P-ST40-US, G6AK-274P-ST40-US)

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)				Set pick-up	Reset pick-up	Maximum voltage	Power consumption
(VDC)	(mA)	<b>(</b> Ω <b>)</b>	Set	coil	Rese	t coil	voltage	voltage		(mW)
			Armature OFF	Armature ON	Armature OFF	Armature ON	9/	of rated voltag	je	
3	120	25	0.02	0.01	0.01	0.02	70% max.	70% min.	150% at 23°C (73°F)	Approx. 360
5	72.50	69	0.05	0.04	0.04	0.05				
6	60	100	0.07	0.05	0.05	0.07				
9	40	225	0.16	0.12	0.12	0.16				
12	30	400	0.28	0.20	0.20	0.28			110%	
24	15	1,600	1.10	0.75	0.75	1.10			at 70°C	
48	7.50	6,400	4	2.90	2.9	4			(158°F)	

## Standard Single Coil Latching 4PDT (G6AU-434P-ST-US, G6AU-474P-ST-US)

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)		Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption	
(VDC)	(mA)	(Ω)	Armature OFF	Armature ON	9	6 of rated voltag	je	(mW)	
3	106.80	28.10	0.03	0.02	70% max.	70% min.	150%	Approx. 320	
5	64	78.10	0.08	0.06			at 23°C (73°F)		
6	53.30	112.50	0.11	0.08					
9	35.60	253	0.25	0.18					
12	26.70	450	0.45	0.32			110%		
24	13.30	1,800	1.80	1.30	1		at 70°C		
48	6.70	7,200	7.00	5.20	1		(158°F)		

## Standard Dual Coil Latching 4PDT (G6AK-434P-ST-US, G6AK-474P-ST-US

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)				Set pick-up	Reset pick-up	Maximum voltage	Power consumption
(VDC)	(mA)	<b>(</b> Ω <b>)</b>	Set	coil	Rese	t coil	voltage	voltage		(mW)
			Armature OFF	Armature ON	Armature OFF	Armature ON	%	of rated voltag	е	
3	106.80	28.10	0.03	0.02	0.02	0.03	70% max.	70% min.		Approx. 320
5	64	78.10	0.08	0.06	0.06	0.08			at 23°C (73°F)	
6	53.30	112.50	0.11	0.08	0.08	0.11			(73 F)	
9	35.60	253	0.25	0.18	0.18	0.25				
12	26.70	450	0.45	0.32	0.32	0.45			110%	
24	13.30	1,800	1.80	1.30	1.30	1.80			at 70°C	
48	6.70	7,200	7.00	5.20	5.20	7.00			(158°F)	

## Dual Coil Latching Low-sensitivity 4PDT (G6AK-434P-ST40-US, G6AK-474P-ST40-US)

Rated voltage	Rated current	Coil resistance	Coil inductance (ref. value) (H)				Set pick-up	Reset pick-up	Maximum voltage	Power consumption
(VDC)	(mA)	<b>(</b> Ω <b>)</b>	Set	coil	Rese	t coil	voltage	voltage		(mW)
			Armature OFF	Armature ON	Armature OFF	Armature ON	9/	of rated voltag	je	
3	120	25	0.02	0.02	0.02	0.02	70% max.	70% min.	150% at 23°C (73°F)	Approx. 360
5	72.50	69	0.07	0.05	0.05	0.07				
6	60	100	0.09	0.08	0.08	0.09				
9	40	225	0.18	0.14	0.14	0.18				
12	30	400	0.30	0.23	0.23	0.30			110% at 70°C	
24	15	1,600	1.20	0.82	0.82	1.20				
48	7.50	6,400	4.40	3.20	3.20	4.40			(158°F)	

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

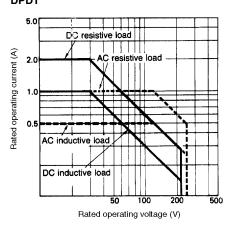
## **■** Characteristics

Туре		Non-latching Latching					
Contact resistance		50 mΩ max.					
Operate (set) time	DPDT	5 ms max. (mean value approx. 3 ms)	5 ms max. (mean value approx. 2.50 ms)				
	4PDT	7 ms max. (mean value approx 3.80 ms)	7 ms max. (mean value approx. 3.30 ms)				
Release (reset) time	DPDT	3 ms max. (mean value approx. 1.20 ms)	5 ms max. (mean value approx. 2.50 ms)				
	4PDT	5 ms max. (mean value approx. 1.30 ms)	7 ms max. (mean value approx. 2.70 ms)				
Bounce time	Operate	Actual value approx. 0.50 ms					
	Release	Actual value approx. 0.50 ms					
Operating frequency	Mechanical	36,000 operations/hour					
	Electrical	1,800 operations/hour (under rated load)					
Insulation resistance		1,000 MΩ min. (at 500 VDC)					
Dielectric strength		1,000 VAC, 50/60 Hz for 1 minute between coil and contacts					
		1,000 VAC, 50/60 Hz for 1 minute between contacts of different poles					
		1,000 VAC, 50/60 Hz for 1 minute between contacts of same pole					
		250 VAC, 50/60 Hz for 1 minute between set and reset coils					
Surge withstand voltage	)	1,500 V 10 x 16 μs (conforms to FCC Part 68)					
Vibration	Mechanical durability	10 to 55 Hz; 5 mm (0.20 in) double amplitude					
	Malfunction durability	10 to 55 Hz; 3.3 mm (0.13 in) double amplitude					
Shock	Mechanical durability	1,000 m/s <sup>2</sup> (Approx. 100G					
	Malfunction durability	DPDT: 500 m/s <sup>2</sup> (Approx. 50 G); 4PDT: 300 m/s <sup>2</sup> (Approx. 30 G)					
Ambient temperature	1	-40° to 70°C (-40° to 158°F)					
Humidity		45% to 85% RH					
Service life	Mechanical	100 million operations min. (at 36,000 operations/hour)					
	Electrical	See "Characteristic Data"					
Weight	DPDT	Approx. 3.5 g (0.12 oz)					
	4PDT	Approx. 6.0 g (0.21 oz)					

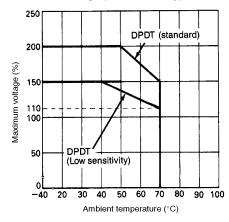
Note: Data shown are of initial value.

## **■** Characteristic Data

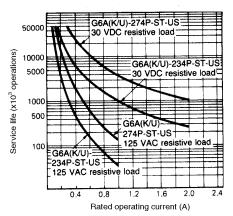
# Maximum Switching Capacity DPDT



#### Ambient Temperature vs. Maximum Voltage (reference only)



# **Electrical Service Life** DPDT

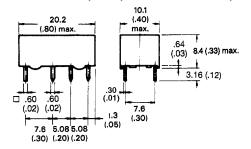


## **Dimensions**

Unit: mm (inch)

## ■ Non-latching

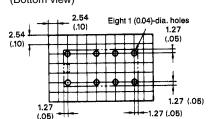
## G6A-234P-ST(15,40)-US, G6A-274P-ST(15,40)-US



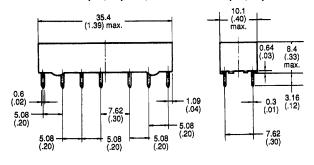
#### Terminal arrangement/ Internal connections (Bottom view)



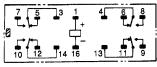
#### Mounting holes (Bottom view)



#### G6A-434P-ST(20,40)-US, G6A-474P-ST(20,40)-US

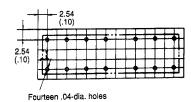


#### Terminal arrangement/ Internal connections (Bottom view)



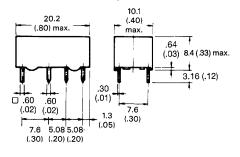
## Mounting holes

(Bottom view)

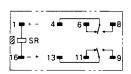


## **■** Latching

#### G6AU-234P-ST-US, G6AU-274P-ST-US

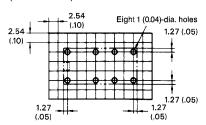


#### Terminal arrangement/ Internal connections (Bottom view)

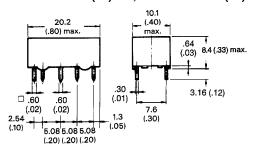


## **Mounting holes**

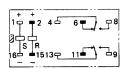
(Bottom view)



#### G6AK-234P-ST(40)-US, G6AK-274P-ST(40)-US

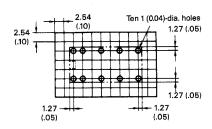


#### Terminal arrangement/ Internal connections (Bottom view)

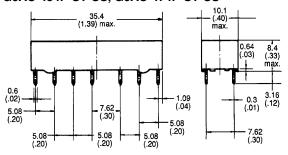


#### **Mounting holes**

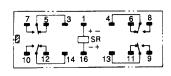
(Bottom view)



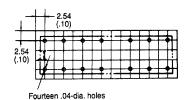
## **G6AU-434P-ST-US, G6AU-474P-ST-US**



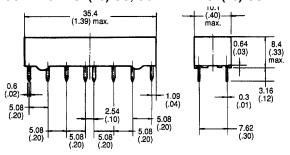
#### Terminal arrangement/ Internal connections (Bottom view)



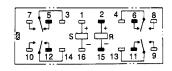
# Mounting holes (Bottom view)



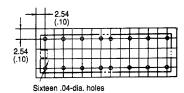
#### G6AK-434P-ST(40)-US, G6AK-474P-ST(40)-US



Terminal arrangement/ Internal connections (Bottom view)



Mounting holes (Bottom view)



Note: and [ \_ ] indicate mounting orientation marks.

## **■** Approvals

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

Туре	Contact form	Coil rating	Contact ratings
G6A-234P-ST-US	DPDT	1 to 48 VDC	0.60 A, 125 VAC
G6A-234P-ST40-US			1 A, 30 VDC
G6A-234P-ST15-US			0.60 A, 110 V+DC
G6A-274P-ST-US			0.60 A, 125 VAC
G6A-274P-ST40-US			2 A, 30 VDC
G6A-274P-ST15-US			0.60 A, 110 V
G6A-434P-ST-US	4PDT	1 to 48 VDC	0.60 A, 125 VAC
G6A-434P-ST20-US			1 A, 30 VDC
G6A-434P-ST40-US			0.60 A, 110 V
G6A-474P-ST-US			0.60 A, 125 VAC
G6A-474P-ST20-US			2 A, 30 VDC
G6A-474P-ST40-US			0.60 A, 110 V
G6AK-234P-ST(40)-US	DPDT	1 to 48 VDC	0.60 A, 125 VAC
G6AU-234P-ST-US			1 A, 30 VDC
			0.60 A, 110 V
G6AK-274P-ST(40)-US			0.60 A, 125 VAC
G6AU-274P-ST-US			2 A, 30 VDC
			0.60 A, 110 V
G6AK-434P-ST(40)-US	4PDT	1 to 48 VDC	0.60 A, 125 VAC
G6AU-434P-ST(40)-US			1 A, 30 VDC
			0.60 A, 110 V
G6AK-474P-ST(40)-US			0.60 A, 125 VAC
G6AU-474P-ST(40)-US			2 A, 30 VDC
			0.60 A, 110 V

Note: 1. The rated values approved by each of the safety standards (e.g., UL and CSA) may be different from the performance characteristics individually defined in this catalog.

- 2. In the general interest of product improvement, specifications are subject to change.
- 3. UL1950 recognition.

## Certain Terms and Conditions of Sale

- Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all catalogs, manuals or other documents, whether electronic or in writing, relating to the sale of goods or services (collectively, the "Goods") by Omron Electronic Components LLC and its subsidiary companies ("Seller"). Seller hereby objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Please contact your Omron representative to confirm any additional terms for sales from your Omron company.

  Prices. All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment.

  Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Seller's payment terms and (ii) Buyer has no past due amounts owing to Seller's

- payment terms and (ii) Buyer has no past due amounts owing to Seller.

  Orders. Seller will accept no order less than \$200 net billing.

  Governmental Approvals. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Goods.
- Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Goods sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and
- remitted by Buyer to Seller.

  Financial. If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Goods sold hereunder and stop any Goods in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it
- by Buyer. Buyer shall in any event remain liable for all unpaid accounts. Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- Force Majeure. Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.

  10. Shipping: Delivery. Unless otherwise expressly agreed in writing by Seller:
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  b. Such carrier shall act as the agent of Buyer and delivery to such carrier
- - shall constitute delivery to Buyer;
    All sales and shipments of Goods shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Goods shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Goods until the full purchase price is paid by Buyer;
- Delivery and shipping dates are estimates only.
   Seller will package Goods as it deems proper for protection against normal handling and extra charges apply to special conditions.

  Claims. Any claim by Buyer against Seller for shortage or damage to the Goods occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier protein that the carrier received the Goods from tion bill signed by the carrier noting that the carrier received the Goods from Seller in the condition claimed.

- <u>Warranties.</u> (a) <u>Exclusive Warranty.</u> Seller's exclusive warranty is that the Goods will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). Seller disclaims all other warranties, express or implied. (b) Limitations. SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE GOODS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE GOODS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Seller further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Goods or otherwise of any intellectual property right. (c) <u>Buyer Remedy.</u> Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Good or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Good; provided that in no event shall Seller be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Goods unless Seller's analysis confirms that the Goods were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any goods by Buyer must be approved in writing by Seller before shipment. Seller shall not be liable for the suitability or unsuitability or the results from the use of Goods in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any
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- Seller exceed the individual price of the Good on which lability is asserted.

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  Miscellaneous. (a) Waiver. No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Seller's written consent. (c) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Seller relating to the Goods, and no provision may be changed or waived unless in writing signed by the parties.

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  - THIS GOOD.

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- Programmable Products. Seller shall not be responsible for the user's programming of a programmable Good, or any consequence thereof. Performance Data. Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Seller's Warranty and Limitations of Liability.

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- changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed or when significant construction changes are made. However, some specifications of the Good may be changed without any notice. When in doubt, specia part numbers may be assigned to fix or establish key specifications for you application. Please consult with your Seller's representative at any time to confirm actual specifications of purchased Good.

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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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