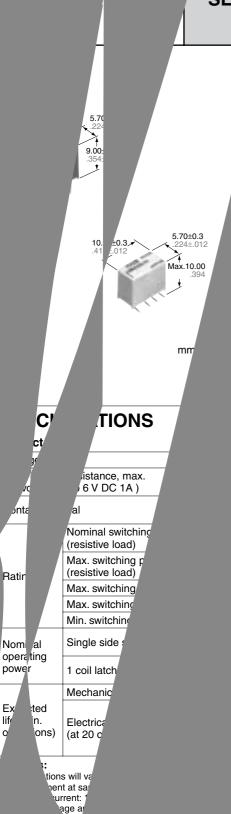


MALL PACKAGE N ADIZED DEL AV

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TYPICAL APPLICATIONS

- Communications (XDSL, Transmission)
- Measurement
- Security

- Home appliances, and audio/visual equipment
- Automotive equipment
- Medical equipment

ORDERING INFORMATION

Ex. AGN 2 0 0 A 1 H Z										
Contact arrangement	Operating function	Type of operation	Terminal shape	Coil voltage (DC)	Packing style					
2: 2 Form C	2: 2 Form C 0: Single side stable 1: 1 coil latching		Nil: Standard PC board terminal A: Surface-mount terminal A type S: Surface-mount terminal S type	06:6V	Nil: Tube packing Z: Tape and reel packing (picked from 5/6/7/8 pin side)					

Note: Tape and reel packing symbol "-Z" is not marked on the relay. "X" type tape and reel packing (picked from 1/2/3/4-pin side) is also available. Suffix "X" instead of "Z".

TYPES AND COIL DATA (at 20°C 68°F)

(1) Standard PC board terminal

Operating Function	Part No.		Pick-up	Drop-out	Nominal		Nominal	Max. allowable voltage, V DC
	Standard PC board terminal	Coil Rating, V DC	voltage, V DC (max.) (initial)	voltage, V DC (min.) (initial)	operating current, mA (±10%)	Coil resistance, Ω (±10%)	operating power, mW	
	AGN2001H	1.5	1.13	0.15	93.8	16	140	2.25
Single side stable	AGN20003	3	2.25	0.3	46.7	64.2	140	4.5
	AGN2004H	4.5	3.38	0.45	31	145	140	6.75
	AGN20006	6	4.5	0.6	23.3	257	140	9
	AGN20009	9	6.75	0.9	15.5	579	140	13.5
	AGN20012	12	9	1.2	11.7	1,028	140	18
	AGN20024	24	18	2.4	9.6	2,504	230	28.8

						·			
Operating Function	Part No. Standard PC board terminal	Coil Rating, V DC	Set voltage, V DC (max.) (initial)	Reset voltage, V DC (max.) (initial)	Nominal operating current,	Coil resistance, Ω (±10%)	Nominal operating power, mW	Max. allowable voltage,	
			, ,	, ,	mA (±10%)		' '		
1 coil latching	AGN2101H	1.5	1.13	1.13	66.7	22.5	100	2.25	
	AGN21003	3	2.25	2.25	33.3	90	100	4.5	
	AGN2104H	4.5	3.38	3.38	22.2	202.5	100	6.75	
	AGN21006	6	4.5	4.5	16.7	360	100	9	
	AGN21009	9	6.75	6.75	11.1	810	100	13.5	
	AGN21012	12	9	9	8.3	1,440	100	18	
	AGN21024	24	18	18	5.0	4,800	120	36	

¹⁾ Standard packing: Tube: 50 pcs.; Case: 1,000 pcs.

(2) Surface-mount terminal

Operating Function	Part No.		0 !! 5 !!	Pick-up	Drop-out	Nominal	Coil	Nominal	Max.
	Tube packing	Tape and reel packing	Coil Rating, V DC	voltage, V DC (max.) (initial)	voltage, V DC (min.) (initial)	operating current, mA (±10%)	resistance, Ω (±10%)	operating power, mW	allowable voltage, V DC
Single side stable	AGN200O1H	AGN200O1HZ	1.5	1.13	0.15	93.8	16	140	2.25
	AGN200O03	AGN200003Z	3	2.25	0.3	46.7	64.2	140	4.5
	AGN200O4H	AGN200O4HZ	4.5	3.38	0.45	31	145	140	6.75
	AGN200006	AGN200006Z	6	4.5	0.6	23.3	257	140	9
	AGN200O09	AGN200009Z	9	6.75	0.9	15.5	579	140	13.5
	AGN200O12	AGN200O12Z	12	9	1.2	11.7	1,028	140	18
	AGN200O24	AGN200O24Z	24	18	2.4	9.6	2,504	230	28.8

O: For each surface-mounted terminal variation, input the following letter.

A type: A, S type: S

Tape and reel: 500 pcs.; Case: 1,000 pcs.

²⁾ Specified value of pick-up, drop-out, set and reset voltage is with the condition of square wave coil pulse.

¹⁾ Standard packing: Tube: 50 pcs.; Case: 1,000 pcs.

²⁾ Specified value of pick-up, drop-out, set and reset voltage is with the condition of square wave coil pulse.

GN (AGN)

Operating Function	Part No.			Set voltage,	Reset	Nominal	Coil	Nominal	Max.
	Tube packing	Tape and reel packing	Coil Rating, V DC	V DC (max.) (initial)	voltage, V DC (max.) (initial)	operating current, mA (±10%)	resistance, Ω (±10%)	operating power, mW	allowable voltage, V DC
1 coil latching	AGN210O1H	AGN210O1HZ	1.5	1.13	1.13	66.7	22.5	100	2.25
	AGN210O03	AGN210O03Z	3	2.25	2.25	33.3	90	100	4.5
	AGN210O4H	AGN210O4HZ	4.5	3.38	3.38	22.2	202.5	100	6.75
	AGN210O06	AGN210O06Z	6	4.5	4.5	16.7	360	100	9
	AGN210O09	AGN210O09Z	9	6.75	6.75	11.1	810	100	13.5
	AGN210O12	AGN210O12Z	12	9	9	8.3	1,440	100	18
	AGN210O24	AGN210O24Z	24	18	18	5.0	4,800	120	36

O: For each surface-mounted terminal variation, input the following letter.

A type: A, S type: S

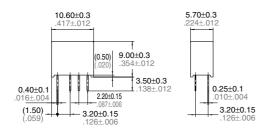
Tape and reel: 500 pcs.; Case: 1,000 pcs.

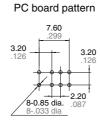
2) Specified value of pick-up, drop-out, set and reset voltage is with the condition of square wave coil pulse.

DIMENSIONS mm inch

1. PC board terminal







Schematic (Bottom view)

Single side stable (Deenergized condition)

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Direction indication

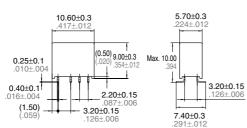
7 6 5

Tolerance: ±0.1 ±.004

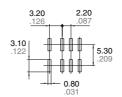
2. Surface-mount terminal

1) A type





Suggested mounting pad



Tolerance: ±0.1 ±.004

1) S type

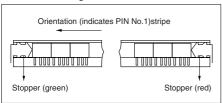
REFERENCE DATA

¹⁾ Standard packing: Tube: 50 pcs.; Case: 1,000 pcs.

NOTES

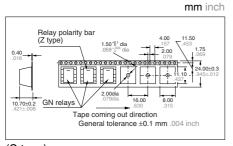
1. Packing style

1) The relay is packed in a tube with the relay orientation mark on the left side, as shown in the figure below.

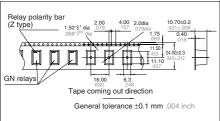


2) Tape and reel packing (A type)

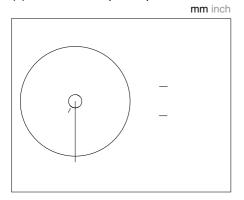
(1)-1 Tape dimensions



(S type) (1)-2 Tape dimensions



(2) Dimensions of plastic peel



2. Automatic insertion

To maintain the internal function of the relay, the chucking pressure should not exceed the values below.

Chucking pressure in the direction A: 4.9 N {500gf} or less

Chucking pressure in the direction B: 9.8 N {1 kgf} or less

Chucking pressure in the direction C: 9.8 N {1 kgf} or less

Please chuck the portion.

Avoid chucking the center of the relay. In addition, excessive chucking pressure to the pinpoint of the relay should be avoided.

