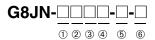
G8JNAutomotive Mini ISO relay

High current switching (inrush current 100A) relay for automotive use

- Both SPST and SPDT available
- Plug in and Weatherproof type
- L x W x H = 28 x 28 x 25.5 mm nominal
- ISO footprint and terminals 6.3 x 0.82 mm
- Full automated Assembly



■ Type standard



	Classification	Symbol	Meaning of the symbol		
1	Number of contact poles	1	Number of contact poles		
2	Contact structure	Α	1a contact		
		С	1c contact		
(3)	Protective structure	6	Unsealed (Weather proof type)		
0		7	Unsealed (In a case)		
4	Terminal form T		Plug-in type		
	Blacket type	-	Standard case		
(5)		F	Metal blacket + Connector guide		
		MF	Plastic blacket case		
6	Surge suppressor	R Built-in resistor			

■ Classification

	Terminal form	Contact structure	Protective structure	Rated coil voltage			
Classification				Voltage (V)	Resistance (Ω)	Туре	Bracket
	Plug-in ISO terminal	SPST (1a)	Unsealed (Weather proof type)	DC12	68	G8JN-1A6T-F-R	Metal bracket + Connector guide
			Unsealed (In a case)			G8JN-1A7T-R	Standard plug-in
Mini ISO						G8JN-1A7T-MF-R	Plastic bracket
WIIII ISO		SPDT (1c) (Weather proof type Unsealed	Unsealed (Weather proof type)			G8JN-1C6T-F-R	Metal bracket + Connector guide
			Unsealed (In a case)			G8JN-1C7T-R	Standard plug-in
						G8JN-1C7T-MF-R	Plastic bracket

Please confirm Omron Safety Precautions for all automotive relays first.

Omron can not guarantee automotive relays before finish making a contract with product specifications.

■ Ratings

Operation coil

Rated	Coil resistance (Ω)			Pated	Operating	Release	Service voltage	Rated power
voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	Rated current (mA)	Operating voltage (V)	voltage (V)	range (V)	consumption (mW)
DC12	68	76	1/2W 680	176	8.0 or less	1.0 or more	DC10 to 16	2118

Switching area

Item		Performance		
Contact material		Silver alloy		
Rated voltage		DC12V		
Rated load	N.O. side	Resistance load, 35A		
nateu loau	N.C. side	Resistance load, 20A		
Inrush current	N.O. side	120A		
illiusii cuiteiit	N.C. side	40A		
Continuous carry	N.O. side	35A		
current*1	N.C. side	20A		
Min. Carry / Switching Current		DC12V 1A		

Performance

Item		Standard value		
Voltage drop	N.O. side	50 mV or less, 10A		
between terminals	N.C. side	50 mV or less, 10A		
Operating time*2		Max. 10ms at 13.5V (Normally 5.4 ms)		
Release time*2		Max. 10ms at 13.5V (Normally 1.6 ms)		
Insulation	Between coil and terminal	20M $Ω$ or more		
resistance*3	Between homopolar contacts	20 Μ Ω or more		
Withstand	Between coil and terminal	AC500V for 1minute		
voltage*4	Between homopolar contacts	AC500V for 1minute		
Vibration	Durability	33Hz 43.1m/s ²		
tolerance	Malfunction	20 to 500Hz 43.1m/s ²		
Mechanical endu	rance	1,000,000 times		
Electrical endura	nce	100,000 times		
Ambient tempera	ture	−40 to +125°C		
Ambient humidity	,	35 to 95%RH		
Weight		Approx. 34.0 g		

Packing

Packing form	Tray
MOQ*5	336pcs (48pcs×7 trays)

Note: All values above are in early time under an ambient temperature of +20°C and humidity of 65% unless stated.

*1. The value stated is at maximum temperature in a guaranteed ambient temperature.

*2. Bounce time is not included.

*3. Measured at DC500V.

*4. Measured under 1mA of leak current, 50/60Hz for 1minute.

*5. Minimum Order Quartity is publicated phagas places feel free to center the suppose state time.

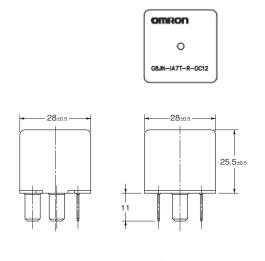
- *5. Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

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■ Dimensions (Unit: mm)

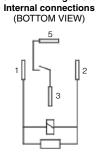
G8JN-1A7T-R





17.9

8.35

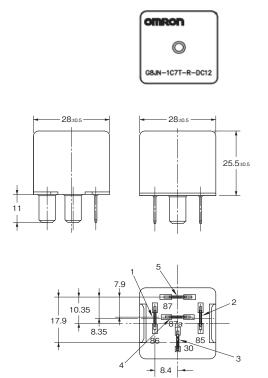


Terminal arrangement /

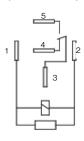
G8JN-1C7T-R







Terminal arrangement / Internal connections (BOTTOM VIEW)

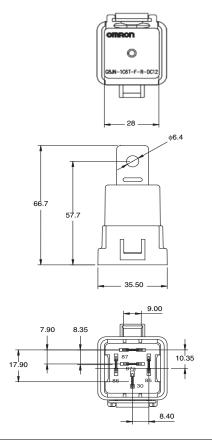


 * Tolerance unless otherwise specified Less than 1 mm: ± 0.1 mm

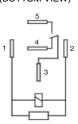
Less than 1 to 3 mm: ±0.2 mm

3 mm or more: ±0.3 mm

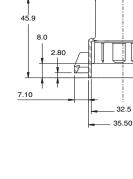
G8JN-1A6T-F-R G8JN-1C6T-F-R



Terminal arrangement / Internal connections (BOTTOM VIEW)

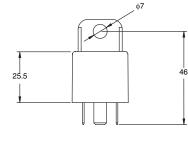


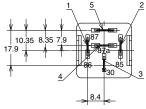
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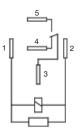
G8JN-1A7T-MF-R G8JN-1C7T-MF-R







Terminal arrangement / Internal connections (BOTTOM VIEW)



* Tolerance unless otherwise specified Less than 1 mm: ±0.1 mm Less than 1 to 3 mm: ±0.2 mm

3 mm or more: ±0.3 mm