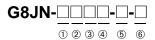
G8JNAutomotive Mini ISO relay

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 | |
| 2 | | С | 1c contact | |
| 3 | Protective structure | 6 | Unsealed (Weather proof type) | |
| | | 7 | Unsealed (In a case) | |
| 4 | Terminal form T | | Plug-in type | |
| (5) | Blacket type | - | Standard case | |
| | | 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 |
| MINI ISO | | SPDT (1c) | Unsealed (Weather proof type) | | 68 | 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.

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Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

Ratings

Operation coil

| Rated | Coil resistance (Ω) | | | Rated | Operating | Release | Service voltage | Rated power |
|----------------|------------------------------|---------------|-----------------------------------|-----------------|-----------------------------|----------------|-----------------|---------------------|
| voltage (V) | Between terminals | Internal coil | Surge suppressor resistance | 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 | | |
| Rateu 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 | | |

I Performance

| Item | | Standard value | | |
|--------------------|----------------------------|--------------------------------------|--|--|
| Voltage drop | N.O. side | 50 mV or less, 10A | | |
| 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 | 20 Μ Ω or more | | |
| resistance*3 | Between homopolar contacts | $20 \mathrm{M}\Omega$ 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 endurar | 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 Quantity is subject to change, please feel free to contact our sales representatives.

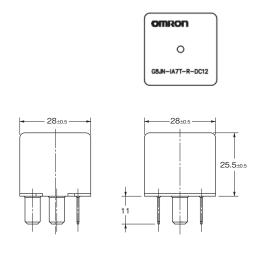
Please confirm Omron Safety Precautions for all automotive relays first.

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■ Dimensions (Unit: mm)

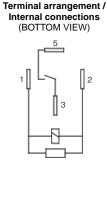
G8JN-1A7T-R





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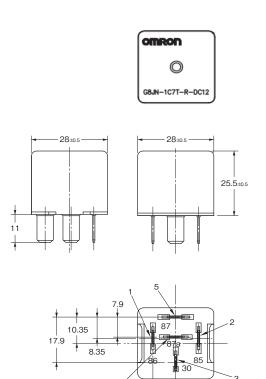
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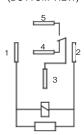
G8JN-1C7T-R







Terminal arrangement / Internal connections (BOTTOM VIEW)



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

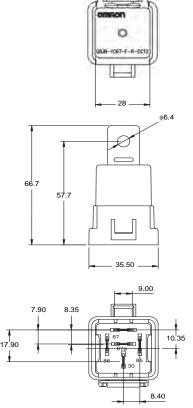
Less than 1 to 3 mm: ±0.2 mm

3 mm or more: ±0.3 mm

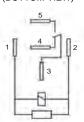
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8.4



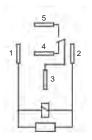


Terminal arrangement / Internal connections (BOTTOM VIEW)



11.0 5 PLCS

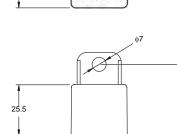
Terminal arrangement / Internal connections (BOTTOM VIEW)

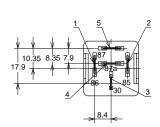


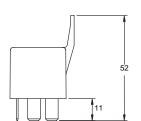


G8JN-1A7T-MF-R

G8JN-1C7T-MF-R







35.50

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

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3 mm or more: ±0.3 mm