

MAIN FEATURES

- Double HG4520 relay in one housing
- 30A contact capacity
- Ultra-miniaturized structure, extremely light weight

TYPICAL APPLICATIONS

- Power antenna
- Power window
- Interval wiper control
- Sunroof control
- Steering wheel power light
- Central door lock
- Seat adjustment
- Immobilizer

CONTACT DATA

| | | |
|----------------------------|------------------------------|----------------------|
| Form | 2 Form A (2H), 2 Form C (2Z) | |
| Max. Switching Current | Make | 100A |
| | Break | 30A |
| Material | AgNi0.15; AgSnOInO | |
| Initial Contact Resistance | 100 mΩ max. at 0.1A, 6VDC | |
| Max. Continuous Current | NC25A / NO30A | |
| Max. Switching Voltage | 16VDC | |
| Service Life | Mechanical | 10 ⁷ ops. |
| | Electrical | 10 ⁵ ops. |

COIL DATA

| Type | Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ω) ±10% | | Must Operate Voltage max. (VDC) | Allowable Voltage (VDC) | Must Release Voltage Min. (VDC) |
|----------|-------------------|-----------------------|---------------------|-------|---------------------------------|-------------------------|---------------------------------|
| | | | Power Consumption | | | | |
| Standard | 006 | 6 | 64 | 0.55W | 3.5 | 12 | 0.75 |
| | 010 | 10 | 181 | | 5.7 | 20 | 1.25 |
| | 012 | 12 | 254 | | 6.9 | 24 | 1.5 |
| D | 012 | 12 | 181 | 0.8W | 6.9 | 20 | 1.5 |

CHARACTERISTICS

| | |
|-----------------------|--|
| Operate Time | 3 ms. typical |
| Release Time | 1.5 ms. typical |
| Insulation Resistance | 100 MΩ, at 500 VDC, 50%RH |
| Dielectric Strength | 500 Vrms, 1 min. |
| Shock Resistance | 30 g, 6ms. |
| Vibration Resistance | 6 g, 10 - 500 Hz |
| Drop Resistance | 1 M height drop on concrete |
| Power Consumption | Standard: 0.55W; D Type: 0.8W, approx. |
| Ambient Temperature | -40°C to 105°C operating; -40°C to 155°C storage |
| Weight | 8 g, approx. |

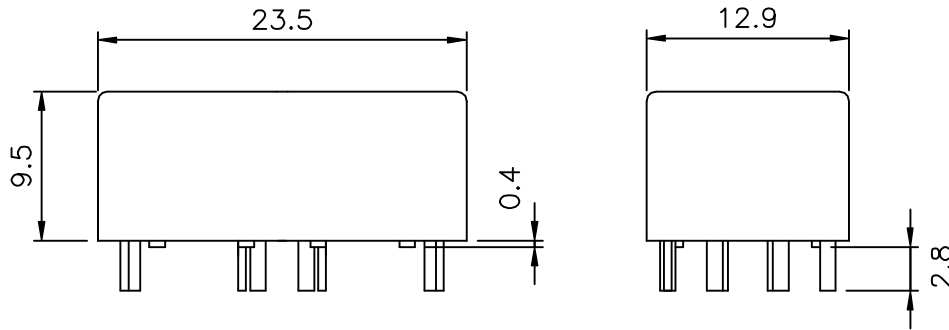
ORDERING DESIGNATION

| | | | | | | |
|----------------------------|----------|-------|----|---|---|---|
| Example: | HG4527 / | 012 - | 2Z | 1 | S | D |
| Model | | | | | | |
| Coil Voltage Code | | | | | | |
| Contact Form | | | | | | |
| 2H: 2 Form A; 2Z: 2 Form C | | | | | | |
| Version | | | | | | |
| 1: Sealed | | | | | | |
| Contact Material | | | | | | |
| A: AgNi0.15; S: AgSnOInO | | | | | | |
| Coil Sensitivity | | | | | | |
| Nil: Standard 0.55W | | | | | | |
| D: 0.8W Type | | | | | | |

HG4527

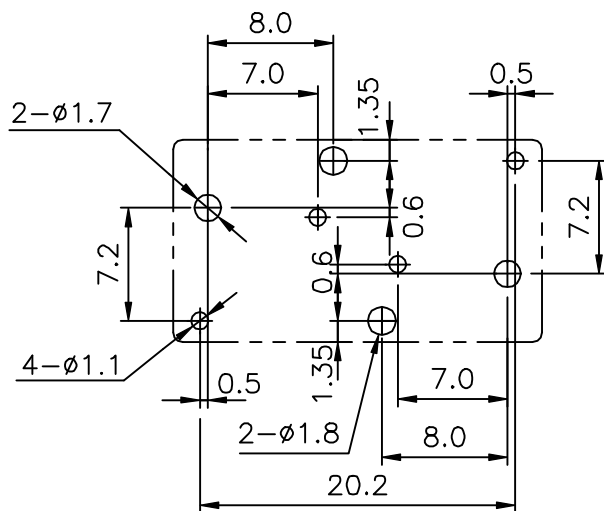
OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)

Overall Dimensions

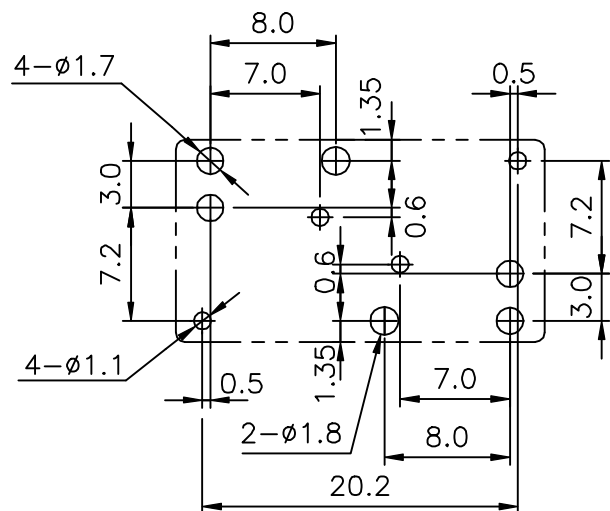


Mounting Holes (Bottom View)

2 Form A (2H)

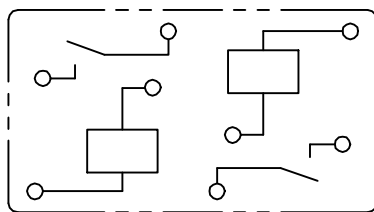


2 Form C (2Z)

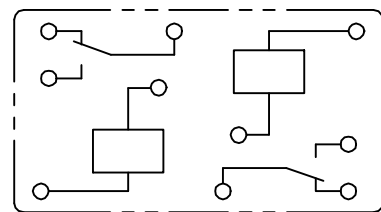


Wiring Diagrams (Bottom View)

2 Form A (2H)



2 Form C (2Z)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Maximum make current refers to inrush current of lamp load.
3. At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%.
4. Electrical life obtained at resistive load at 20A, 13.5 VDC on NO contacts with operating frequency of 6 ops/min.
5. To exert optimum electrical life, please remove the knock-off nib of sealed version after cleaning process.

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