

## ● Features

- 1C: 15A; 2C:10A switching capability
- Various terminals available
- Sockets available
- Conform to the CE low voltage directive
- 1 & 2 pole configurations
- Environmental friendly product (RoHS compliant)
- Dimensions: without bracket: 28.0 x 21.5 x 35.0 mm  
With bracketed cover 44.0 x 21.5 x 35.0 mm



## ● Application

Railway Transit Equipment / Industrial Control Equipment / Machine Tool /  
Mechanical Equipment / Elevator Control / Home Appliance, etc.

## ● Contact Data

| Contact Arrangement    | 1C                                  | 2C                 |
|------------------------|-------------------------------------|--------------------|
| Contact Material       | Ag Alloy                            |                    |
| Contact Rating         | 15A 250VAC / 30VDC                  | 10A 250VAC / 30VDC |
| Max. Switching Power   | 3750VA / 450W                       | 2500VA / 300W      |
| Max. Switching Voltage | 250VAC / 30VDC                      |                    |
| Max. Switching Current | 15A                                 | 10A                |
| Contact Resistance     | $\leq 100\text{m}\Omega$ (1A, 6VDC) |                    |
| Electrical Endurance   | $1 \times 10^5$                     |                    |
| Mechanical Endurance   | $2 \times 10^7$                     |                    |

## ● Coil Parameter (at 23°C)

| Coil Voltage<br>(VDC) |      | Coil<br>Resistance<br>( $\Omega \pm 10\%$ ) | Pickup<br>Voltage(max)<br>(VDC) | Release<br>Voltage(min)<br>(VDC) | Coil Power<br>Consumption<br>(W) |
|-----------------------|------|---------------------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Rated                 | Max. |                                             |                                 |                                  |                                  |
| 5                     | 5.5  | 27                                          | 4.0                             | 0.5                              | 0.9                              |

## ● Coil Parameter

| Coil Voltage (VDC) |       | Coil Resistance ( $\Omega \pm 10\%$ ) | Pickup Voltage(max) (VDC) | Release Voltage(min) (VDC) | Coil Power Consumption (W) |
|--------------------|-------|---------------------------------------|---------------------------|----------------------------|----------------------------|
| Rated              | Max.  |                                       |                           |                            |                            |
| 6                  | 6.6   | 39                                    | 4.8                       | 0.6                        | 0.9                        |
| 12                 | 13.2  | 156                                   | 9.6                       | 1.2                        |                            |
| 24                 | 26.4  | 650                                   | 19.2                      | 2.4                        |                            |
| 48                 | 52.8  | 2500(1 $\pm$ 15%)                     | 38.4                      | 4.8                        |                            |
| 110                | 121.0 | 11000(1 $\pm$ 15%)                    | 88.0                      | 11.0                       |                            |

| Coil Voltage (VAC) |       | Coil Resistance ( $\Omega \pm 10\%$ ) | Pickup Voltage(max) (VAC) | Release Voltage(min) (VAC) | Coil Power Consumption (VA) |
|--------------------|-------|---------------------------------------|---------------------------|----------------------------|-----------------------------|
| Rated              | Max.  |                                       |                           |                            |                             |
| 6                  | 6.6   | 11.5                                  | 4.8                       | 1.8                        | 1.2                         |
| 12                 | 13.2  | 46.0                                  | 9.6                       | 3.6                        |                             |
| 24                 | 26.4  | 184                                   | 19.2                      | 7.2                        |                             |
| 110                | 121.0 | 3530(1 $\pm$ 15%)                     | 88.0                      | 33.0                       |                             |
| 120                | 132.0 | 4430(1 $\pm$ 15%)                     | 96.0                      | 36.0                       |                             |
| 220/240            | 242.0 | 14400(1 $\pm$ 15%)                    | 176.0                     | 66.0                       |                             |

## ● Operation Condition

|                       |                          |                                |
|-----------------------|--------------------------|--------------------------------|
| Insulation Resistance |                          | 1000M $\Omega$ min (at 500VDC) |
| Dielectric Strength   | Between Contacts         | 1000VAC 1min                   |
|                       | Between Coil and Contact | 1500VAC 1min                   |
|                       | Between Contact Sets     | 1500VAC 1min                   |
| Shock Resistance      | Functional               | 98m/s <sup>2</sup>             |
|                       | Endurance                | 980m/s <sup>2</sup>            |
| Vibration Resistance  |                          | 10~55Hz double amplitude 1.0mm |
| Ambient Temperature   |                          | -40 ~ +70℃                     |

## ● Operation Condition

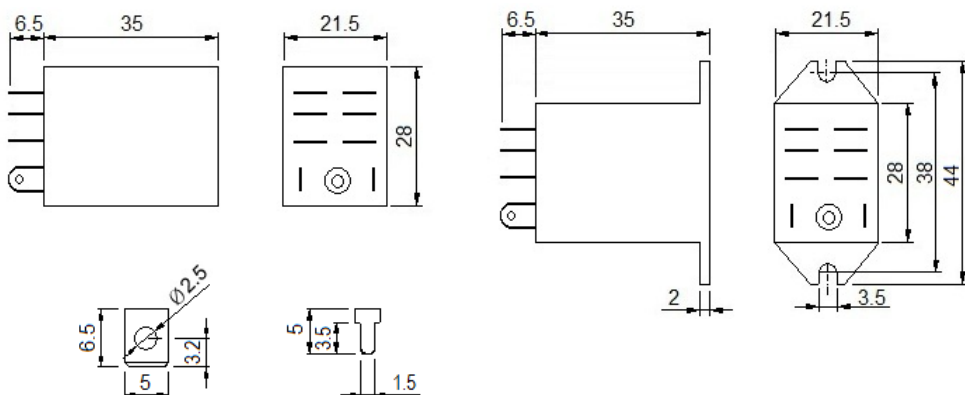
|                   |                    |
|-------------------|--------------------|
| Operate Time      | $\leq 25\text{ms}$ |
| Release Time      | $\leq 25\text{ms}$ |
| Relative Humidity | 5%~85%             |
| Weight            | Approx. 37g        |

## ● Ordering Information

|                            |                                                                                                        | HC | B | -12D | L | -2C | (XXX) |
|----------------------------|--------------------------------------------------------------------------------------------------------|----|---|------|---|-----|-------|
| <b>Model</b>               |                                                                                                        |    |   |      |   |     |       |
| <b>Mounting</b>            | Nil: Socket <b>P</b> : PCB                                                                             |    |   |      |   |     |       |
| <b>Termination</b>         | <b>B</b> : Flange-mounting                                                                             |    |   |      |   |     |       |
| <b>Coil Voltage</b>        | <b>5D~220D</b> : 5VDC to 220VDC<br><b>6A~240A</b> : 6VAC to 240VAC                                     |    |   |      |   |     |       |
| <b>Component</b>           | Nil: Without Component <b>L</b> : With LED<br><b>D</b> : Diode across coil <b>T</b> : With Test Button |    |   |      |   |     |       |
| <b>Contact Arrangement</b> | <b>1C</b> : 1 Form C <b>2C</b> : 2 Form C                                                              |    |   |      |   |     |       |
| <b>Special Code</b>        | Nil: Standard <b>XXX</b> : Customer special requirement                                                |    |   |      |   |     |       |

## ● Dimensions (UNIT: mm)

### Outline Dimensions

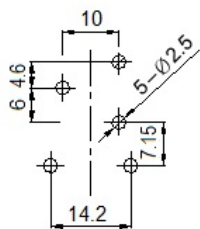


Plug-In Type

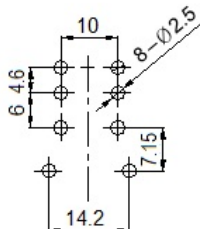
PCB Type

## ● Dimensions (UNIT: mm)

Mounting (Bottom views)

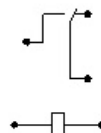


1 Form C

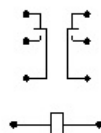


2 Form C

Wiring Diagram (Bottom views)



1 Form C



2 Form C

Notes: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $>1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $>5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

## ● Engineering Data

