

HE700 D.I.L. Relay Features and Benefits



Features

- Miniature dual in line package
- Choice of normally open, normally closed and change over contacts
- High voltage switching option
- Up to 2 normally open contacts
- Available with 5V, 12V or 24V coil options as standard
- Magnetic shield option
- Diode suppression option
- Diagonal coil option

Benefits

- One relay, various contacts choices reducing space and cost without compromising flexibility
- Lower power coil consumption than competing electromechanical devices.
- Hermetically sealed switching contact is immune to the effects of its environment
- Transfer moulded package gives maximum component protection

Applications

- Security
- Telecoms
- Instrumentation
- Process Control
- Industrial

DIMENSIONS (in) mm



Figure 1 HE700



Figure 2 HE751



Figure 3 HE700 (All)

Table 1

| Relay Type | Body Type | l | w | h |
|------------|-------------------------------------|------------------------------|----------------------------|----------------------------|
| HE700 | Transfer Moulded External Shield | (.750) 19,05 (.795) 20,19 | (.285) 7,24 (.300) 7,62 | (.295) 7,50 (.305) 7,75 |

HE700 PCB LAYOUT (Bottom View)



ORDERING INFORMATION

PART NUMBER HE7X X X XX XX

Model Number

HE72 - Standard
HE75 - High Voltage

Number of Contacts

1,2

General Options

00 - No Options
10 - Coil Suppression Diode
20 - Electrostatic Shield
30 - Coil Diode and E.S. Shield
40 - External Magnetic Shield
50 - External Magnetic Shield and Diode

Contact Type

A - Form A (SPST-NO)
B - Form B (SPST-NC)
C - Form C (SPDT-CO)
E - Form C (SPDT-CO) alternate foot print 1
R - Form C (SPDT-CO) alternate foot print 2

Standard Coil

05 - 5 Volt
12 - 12 Volt
24 - 24 Volt

EXAMPLE: The HE721A0540 is a 1 Form relay with a 5 Volt coil and external magnetic shield

Contact the Hamlin Applications Engineering Department for low profile and other option combinations available.

See next page for: **Electrical and Operating Characteristics Description and Coil Characteristics**

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Table 2 HE700 Series  **Recognised File #E47258** **Electrical and Operating Characteristics @ 25°C.**

| Column Number | | | 1 | 2 | 3 | 4 |
|---|---|--|---|--|---|---|
| Contact Type | | | Form A SPST, DPST Standard | Form C SPDT-CO Standard | Form A SPST High Voltage | Form B SPST-NC Standard |
| Relay Types | | | HE721, HE722 | HE721C, E, R | HE751 | HE721 |
| CONTACT RATINGS Contact Hamlin for specific load/life details | Power, Switching Voltage, Switching Current, Switching Current, Carry | Watt - max. Vdc - max. A - max. A - max. | 10 200 0.5 1.2 | 5 175 0.25 1.5 | 10 300 0.5 1.2 | 10 200 0.5 1.2 |
| VOLTAGE HOLD-OFF | Across Open Contacts Contacts to Coil Coil to E. Shield Between Isolated Terminals | Vdc - min. Vac - min. Vac - min. Vac - min. | 250 500 150 500 | 200 500 150 N/A | 450 2500 N/A N/A | 250 500 N/A N/A |
| RESISTANCE | Contact, Initial Insulation: Across Open Contacts Between Isolated Terminals | Ω - max. Ω - min. Ω - min. | 0.150 10 ¹⁰ 10 ¹⁰ | 0.200 10 ⁹ 10 ¹⁰ | 0.150 10 ¹⁰ 10 ¹⁰ | 0.150 10 ¹⁰ 10 ¹⁰ |
| TIMING | Operate Time Release Time | ms - max. ms - max. | 1.0 1.0 | 3.0 3.0 | 1.0 1.0 | 1.0 1.0 |
| ENVIRONMENTAL | Temperature, Operating Temperature, Storage Vibration Resistance Shock Resistance | °C °C G - max. 10-2000 Hz. G - max. 11 ms, 1/2 sine | -40 to +85 -40 to +105 20 50 | -40 to +85 -40 to +105 20 50 | -20 to +85 -40 to +105 20 50 | -40 to +85 -40 to +105 20 50 |

Table 3 HE700 Series Miniature Relay **Coil Characteristics @ 25°C.**

| Contact Form | Electrical & Operating Characteristics | Dimensions | Part Number | Nominal Coil Voltage Vdc | Coil Resistance ±10% Ohms | Must Operate Vdc | Must Release Vdc | Maximum Coil Voltage Vdc | Top View 2,54 mm, 0.1 in. Grid Dot on Case: Pin 1 Numbers not printed on case. |
|-------------------------------|--|------------|-------------|--------------------------|---------------------------|------------------|------------------|--------------------------|---|
| 1A SPST-NO | See Table 2 Column 1 | Figure 1 | HE721A0500 | 5 | 500 | 3.75 | 0.5 | 12 |  |
| | | | HE721A1200 | 12 | 1000 | 8.0 | 1.0 | 31 | |
| | | | HE721A2400 | 24 | 2150 | 16.0 | 2.0 | 46 | |
| 1B SPST-NC | See Table 2 Column 4 | Figure 1 | HE721B0500 | 5 | 500 | 3.75 | 0.5 | See Note 2, 3 6.5 |  |
| | | | HE721B1200 | 12 | 500 | 9.0 | 1.0 | 14 | |
| | | | HE721B2400 | 24 | 2150 | 18.0 | 2.0 | 28 | |
| 1C SPDT-CO | See Table 2 Column 2 | Figure 1 | HE721C0500 | 5 | 200 | 3.75 | 0.5 | 14 |  |
| | | | HE721C1200 | 12 | 500 | 8.0 | 1.0 | 22 | |
| | | | HE721C2400 | 24 | 2000 | 16.0 | 2.0 | 44 | |
| 1C SPDT-CO | See Table 2 Column 2 | Figure 1 | HE721E0500 | 5 | 200 | 3.75 | 0.5 | 14 |  |
| | | | HE721E1200 | 12 | 500 | 8.0 | 1.0 | 22 | |
| | | | HE721E2400 | 24 | 2000 | 16.0 | 2.0 | 44 | |
| 1C SPDT-CO | See Table 2 Column 2 | Figure 1 | HE721R0500 | 5 | 200 | 3.75 | 0.5 | 14 |  |
| | | | HE721R1200 | 12 | 500 | 8.0 | 1.0 | 22 | |
| | | | HE721R2400 | 24 | 2000 | 16.0 | 2.0 | 44 | |
| 2A DPST-NO | See Table 2 Column 1 | Figure 1 | HE722A0500 | 5 | 200 | 3.75 | 0.5 | 12 |  |
| | | | HE722A1200 | 12 | 500 | 8.0 | 1.0 | 22 | |
| | | | HE722A2400 | 24 | 2150 | 16.0 | 2.0 | 46 | |
| 1A SPST-NO High Voltage | See Table 2 Column 3 | Figure 2 | HE751A0500 | 5 | 500 | 3.75 | 0.5 | 12 |  |
| | | | HE751A1200 | 12 | 1000 | 8.0 | 1.0 | 31 | |
| | | | HE751A2400 | 24 | 2150 | 16.0 | 2.0 | 46 | |

- Notes:
- 1) The HE 700 Series is also available in low profile with (.225) 5.72mm height. Contact Hamlin for details.
 - 2) HE721B - Exceeding recommended voltage may cause contact closure.
 - 3) Optional external magnetic shield not available on Form B relays.

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