

# **HE700 D.I.L. Relay Features and Benefits**



**HE700 PCB LAYOUT** 

### **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**

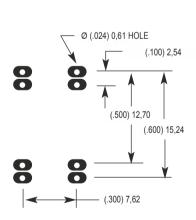
- One relay, various contacts choices reducing space and cost without compromising flexibility
- Lower power coil consumption than competing electromechanical
- Hermetically sealed switching contact is immune to the effects of its environment
- Transfer molded package gives maximum component protection

## **Applications**

- Security
- Telecom
- Instrumentation
- Process Control
- Industrial

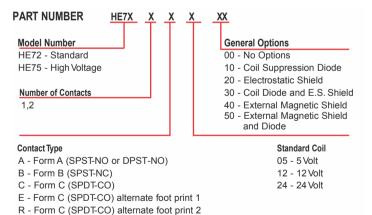
DIMENSIONS (in) mm		
(.020) 0,51 0,00 NOM. (.600) 15,24 NOM. (.118) 3,00 NOM.	(.020) (.400) 10,16 h (.020) (.600) 15,24 (.118) 3,00 NOM. Figure 2 HE751	W (.010) 0,25 NOM. -(.375) 9,52 Figure 3 HE700 (All)
Figure I HE700	Figure 2 HE/51	Figure 3 HE700 (All)

Table 1					
Relay Type	Body Type		W	h	
HE700	Transfer Molded External Shield	(.768) 19,50 (.793) 20,14	(.284) 7,22 (.300) 7,62	(.217) 5,50 (.229) 5,82	



(Bottom View)

# ORDERING INFORMATION



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

## 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					
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 4000 N/A N/A	250 500 N/A N/A
RESISTANCE	Contact, Initial Insulation Across Contacts Insulation Between Isolated Terminals	$\begin{array}{l} \Omega - \text{max.} \\ \Omega - \text{min.} \\ \Omega - \text{min.} \end{array}$	0.150 10 <sup>10</sup> 10 <sup>10</sup>	0.200 10¹º 10¹º	0.150 10¹º 10¹º	0.150 10¹º 10¹º
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 ½ 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			HE721A0500	5	500	3.75	0.5	12	14 13 9 8 E.S.
SPST-NO	See Table 2 Column 1	Figure 1	HE721A1200	12	1000	8.0	1.0	31	
	Column		HE721A2400	24	2150	16.0	2.0	46	1 2+++4- 6 7
								See Note 1, 2	14 13 _ 9 8
1B			HE721B0500	5	500	3.75	0.5	6.5	14 13 E.S.
SPST-NC	See Table 2 Column 4	Figure 1	HE721B1200	12	500	9.0	1.0	14	
	Column 4		HE721B2400	24	2150	18.0	2.0	28	1 2+++1 6 7
1C			HE721C0500	5	200	3.75	0.5	14	1/4 1/3 9 8 E.S.
SPDT-CO	See Table 2 Column 2	Figure 1	HE721C1200	12	500	8.0	1.0	22	
	Coluitiii 2		HE721C2400	24	2000	16.0	2.0	44	1 2++14- 6 7
1C			HE721E0500	5	200	3.75	0.5	14	14 13 E.S. 9 8
SPDT-CO	See Table 2 Column 2	Figure 1	HE721E1200	12	500	8.0	1.0	22	
	Columniz		HE721E2400	24	2000	16.0	2.0	44	1 2+++4- 6 7
1C			HE721R0500	5	200	3.75	0.5	14	14 13 E.S.9 8
SPDT-CO	See Table 2 Column 2	Figure 1	HE721R1200	12	500	8.0	1.0	22	
	Columniz		HE721R2400	24	2000	16.0	2.0	44	1 2+++ <b>√</b> - 6 7
2A			HE722A0500	5	200	3.75	0.5	12	14 13 9 8 E.S.
DPST-NO	See Table 2 Column 1	Figure 1	HE722A1200	12	500	8.0	1.0	22	
	Column		HE722A2400	24	2150	16.0	2.0	46	1 2+-+ 6 7
1A			HE751A0500	5	500	3.75	0.5	12	1/4 8
SPST-NO	See Table 2 Column 3	Figure 2	HE751A1200	12	1000	8.0	1.0	31	
High Voltage	Colullii 3		HE751A2400	24	2150	16.0	2.0	46	2+++

Notes: 1) HE721B - Exceeding recommended voltage may cause contact reclosure.

2) Optional external magnetic shield not available on Form B relays.

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