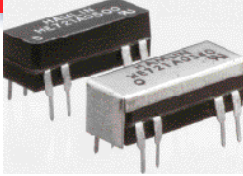


HE700 Features and Benefits



Features

- Choice of normally open, normally closed and change over contacts
- Up to 2 normally open contacts
- Available with 5V, 12V or 24V coil options as standard
- Magnetic shield 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

Applications

- Security
- Telecoms
- Instrumentation
- Process Control
- Industrial

DIMENSIONS

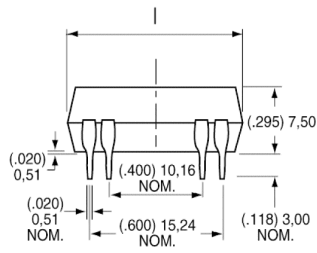


Figure 1 HE700

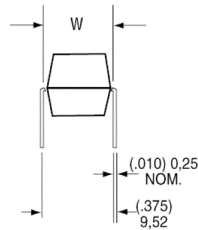
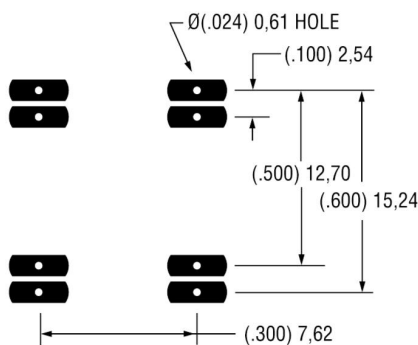


Figure 2 HE700

Table I

Relay Type	Body Type	I	w	h
HE700	Transfer Molded External Shield	(.788) 19,5 (.795) 20,19	(.285) 7,24 (.300) 7,62	(.295) 7,50 (.305) 7,75

HE700 PCB LAYOUT (Bottom View)



ORDERING INFORMATION

PART NUMBER

Model Number
HE72 - Standard
HE75 - High Voltage

Number of Contacts
1,2

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
R - Form C (SPDT-CO) alternate foot print

General Options

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

Standard Coil

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

EXAMPLE The HE72IA0540 is a I Form relay with a 5 Volt coil and external magnetic shield
Contact the Hamlin, Inc. Applications Engineering Department for low profile and other option combinations available.

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

Breed Electronics USA Tel: 001 920 648 3000 • Fax: 001 920 648 3001 • Email: sales@hamlin.com
Breed Electronics UK Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: uksales@breedtech.com
Breed Electronics Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: hamlin-electronics.de@breedtech.com
Breed Electronics France Tel: +33 1 46 87 02 02 • Fax: +33 1 46 86 67 86 • Email: hamectrol@hamectrol.fr

Table 2		HE700 Series		Recognized 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	Watt - max.	10	5	10	10			
	Voltage, Switching	Vdc - max.	200	175	300	200			
	Current,Switching	A - max.	0.5	0.25	0.5	0.5			
	Current, Carry	A - max.	1.2	1.5	1.2	1.2			
VOLTAGE HOLD-OFF	Across Open Contacts	Vdc - min.	250	200	450	250			
	Contacts to Coil	Vac - min.	500	500	2500	500			
	Coil to E.Shield	Vac - min.	150	150	N/A	N/A			
	Between Isolated Terminals	Vac - min.	500	N/A	N/A	N/A			
RESISTANCE	Contact,Initial	W- max.	0.150	0.200	0.150	0.150			
	Insulation:Across Open Contacts	W- min.	10 ¹⁰	10 ⁹	10 ¹⁰	10 ¹⁰			
	Between Isolated Terminals	W- min.	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰			
TIMING	Operate Time	ms - max.	1.0	3.0	1.0	1.0			
	Release Time	ms - max.	1.0	3.0	1.0	1.0			
ENVIRONMENTAL	Temperature, Operating	°C	-40 to +85	-40 to +85	-20 to +85	-40 to +85			
	Temperature, Storage	°C	-40 to +105	-40 to +105	-40 to +105	-40 to +105			
	Vibration Resistance	G - max.10-2000 Hz.	20	20	20	20			
	Shock Resistance	G - max.11 ms, ½ sine	50	50	50	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 720 Series is also available in low profile with (.225) 5,72mm height. Contact Hamlin for details.
 - 2) HE721B - Exceeding recommended voltage may cause contact reclosure.
 - 3) Optional external magnetic shield not available on Form B relays.

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