

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

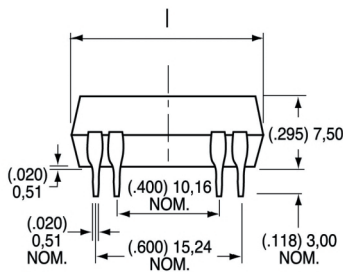


Figure 1 HE700

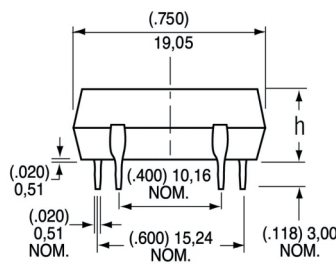


Figure 2 HE751

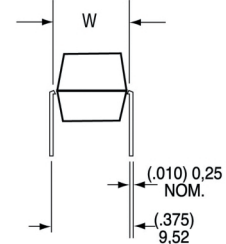
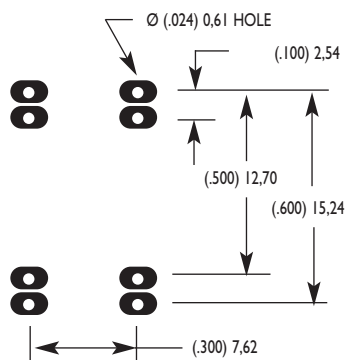


Figure 3 HE700 (All)

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 I 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**

Hamlin USA Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com
 Hamlin UK Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com
 Hamlin Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 9536666 • Email: sales.de@hamlin.com
 Hametrol France Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com

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	Power, Switching	Watt - max.	10	5	10	10
Contact Hamlin for specific load/life details	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	Ω - max.	0.150	0.200	0.150	0.150
	Insulation: Across Open Contacts	Ω - min.	10^{10}	10^9	10^{10}	10^{10}
	Between Isolated Terminals	Ω - 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, 1/2 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 $\pm 10\%$ 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.
IA SPST-NO	See Table 2 Column 1	Figure 1	HE721A0500 HE721A1200 HE721A2400	5 12 24	500 1000 2150	3.75 8.0 16.0	0.5 1.0 2.0	12 31 46	
IB SPST-NC	See Table 2 Column 4	Figure 1	HE721B0500 HE721B1200 HE721B2400	5 12 24	500 500 2150	3.75 9.0 18.0	0.5 1.0 2.0	6.5 14 28	
IC SPDT-CO	See Table 2 Column 2	Figure 1	HE721C0500 HE721C1200 HE721C2400	5 12 24	200 500 2000	3.75 8.0 16.0	0.5 1.0 2.0	14 22 44	
IC SPDT-CO	See Table 2 Column 2	Figure 1	HE721E0500 HE721E1200 HE721E2400	5 12 24	200 500 2000	3.75 8.0 16.0	0.5 1.0 2.0	14 22 44	
IC SPDT-CO	See Table 2 Column 2	Figure 1	HE721R0500 HE721R1200 HE721R2400	5 12 24	200 500 2000	3.75 8.0 16.0	0.5 1.0 2.0	14 22 44	
2A DPST-NO	See Table 2 Column 1	Figure 1	HE722A0500 HE722A1200 HE722A2400	5 12 24	200 500 2150	3.75 8.0 16.0	0.5 1.0 2.0	12 22 46	
IA SPST-NO High Voltage	See Table 2 Column 3	Figure 2	HE751A0500 HE751A1200 HE751A2400	5 12 24	500 1000 2150	3.75 8.0 16.0	0.5 1.0 2.0	12 31 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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