

HE3300 S.I.L Relay Features and Benefits



Features

- Miniature single in line package
- Available with 5V, 12V or 24V coil options as standard
- High voltage and power switching versions
- Normally open, normally closed, and change over contact configurations available
- External magnetic shield option

Benefits

- Single in line configuration allows high packing densities, minimising space and cost
- 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
- Automatic Test Equipment

DIMENSIONS (in) mm

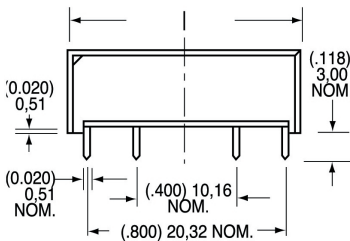


Figure 1 HE3321A, HE3351A, HE3361A, HE3321B

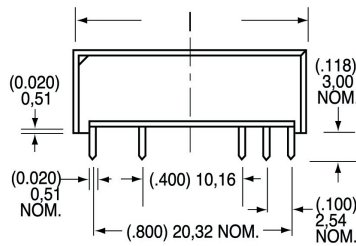


Figure 2 HE3321C

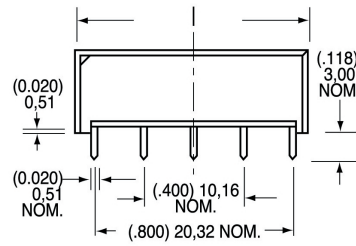


Figure 3 HE3321E

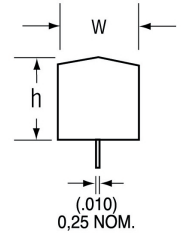
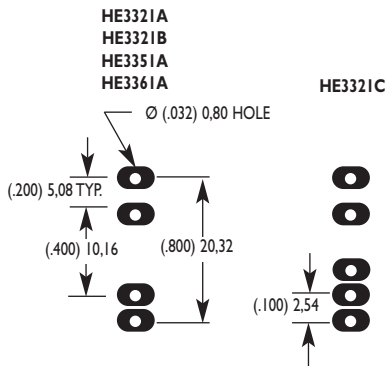


Figure 4 HE3300 (All)

Table 1

Relay Type	Body Type	l	w	h
HE3300	Transfer Molded	(.950) 24,13	(.300) 7,62	(.335) 8,51
	External Shield	(.980) 24,90	(.320) 8,12	(.345) 8,76

HE3300 PCB LAYOUT (Bottom View)



ORDERING INFORMATION

PART NUMBER HE33XX X XX XX

Model Number

- HE3321 - Standard
- HE3351 - High Voltage
- HE3361 - Power Switching

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

General Options

- 00 - No Options
- 40 - External Magnetic Shield

Standard Coil

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

EXAMPLE: The HE3321A0540 is a 1 Form relay with a 5 Volt coil and external magnetic shield

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

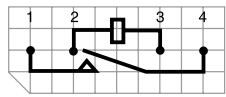
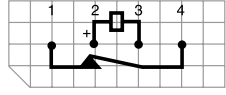
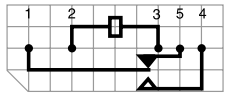
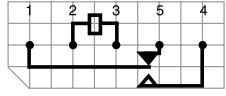
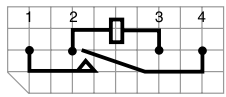
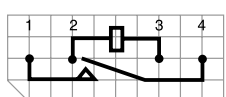
Hamlin USA Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com
Hamlin UK Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com
Hamlin Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 9536666 • Email: sales.de@hamlin.com
Hamectrol France Tel: +33 (0) 1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

ISSUE No: 4 DATE: 1/5/3

Table 2 HE3300 Series  **Electrical and Operating Characteristics @ 25°C.**

Column Number			1	2	3	4	5
Contact Type			Form A SPST-NO Standard	Form A SPST-NO High Voltage	Form A SPST-NO Power Switching	Form C SPST-CO Standard	Form B SPST-NC Standard
Relay Types			HE3321A	HE3351A	HE3361A	HE3321C, E	HE3321B
CONTACT RATINGS	Power, Switching Contact Hamlin for specific load/life details	Watt - max. Vdc - max. A - max. A - max.	10 200 0.5 1.2	10 300 1.0 1.5	50 200 1.5 2.0	5 175 0.25 1.5	10 200 0.5 1.2
VOLTAGE HOLD-OFF	Across Open Contacts Contacts to Coil	Vdc - min. Vac - min.	250 2500	450 2500	300 2500	200 2500	250 2500
RESISTANCE	Contact, Initial Insulation: Across Open Contacts Between Isolated Terminals	Ω - max. Ω - min. Ω - min.	0.150 10 ¹⁰ 10 ¹⁰	0.150 10 ¹⁰ 10 ¹⁰	0.150 10 ¹⁰ 10 ¹⁰	0.200 10 ⁹ 10 ¹⁰	0.150 10 ¹⁰ 10 ¹⁰
TIMING	Operate Time Release Time	ms - max. ms - max.	1.0 1.0	1.0 1.0	1.0 1.0	3.0 3.0	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	-20 to +85 -40 to +105 20 50	-40 to +85 -40 to +105 20 50	-40 to +85 -40 to +105 20 50	-40 to +85 -40 to +105 20 50

Table 3 HE3300 Series Relay **Coil Characteristics @ 25°C.**

Contact Form & Type	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.
IA SPST-NO	See Table 2 Column 1	See Figure 1	HE3321A0400	5	500	3.75	0.5	22	
			HE3321A1200	12	500	9.0	1.0	22	
			HE3321A2400	24	2000	18.0	2.0	44	
IB SPST-NC	See Table 2 Column 5	See Figure 1	HE3321B0400	5	500	3.75	0.5	See Note 1, 2 6.5	
			HE3321B1200	12	500	9.0	1.0	14.0	
			HE3321B2400	24	2000	18.0	2.0	28.0	
IC SPDT-CO	See Table 2 Column 4	See Figure 2	HE3321C0500	5	125	3.75	0.5	11	
			HE3321C1200	12	500	9.0	1.0	22	
			HE3321C2400	24	2000	18.0	2.0	44	
IC SPDT-CO	See Table 2 Column 4	See Figure 3	HE3321E0500	5	125	3.75	0.5	11	
			HE3321E1200	12	500	9.0	1.0	22	
			HE3321E2400	24	2000	18.0	2.0	44	
IA SPST-NO High Voltage	See Table 2 Column 2	See Figure 1	HE3351A0500	5	125	3.75	0.5	11	
			HE3351A1200	12	500	9.0	1.0	22	
			HE3351A2400	24	2000	18.0	2.0	44	
IA SPST-NO Power Switching	See Table 2 Column 3	See Figure 1	HE3361A0500	5	125	3.75	0.5	11	
			HE3361A1200	12	500	9.0	1.0	22	
			HE3361A2400	24	2000	18.0	2.0	44	

- Notes: 1) HE3321B - Exceeding recommended voltage may cause contact closure.
2) External magnetic shielding not available on 12 and 24 Volt Form B relays.

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