

## 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 switching version
- Normally open 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

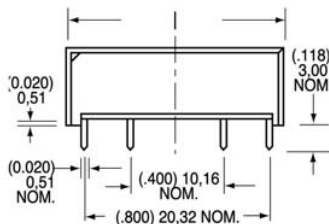


Figure 1 HE3321A, HE3351A

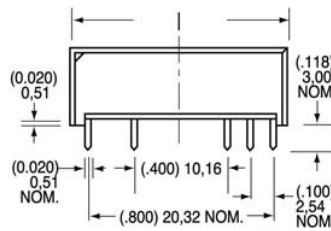


Figure 2 HE3321C

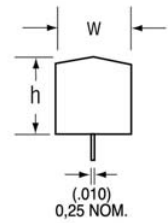
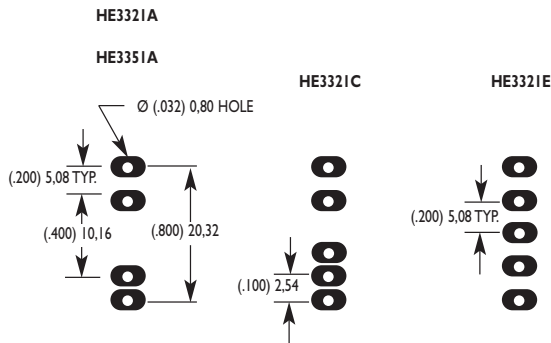


Figure 3 HE33300 (All)

Table 1

Relay Type	Body Type	l	w	h
HE33300	Transfer Moulded	(.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

### Contact Type

A - Form A (SPST-NO)  
C - Form C (SPDT-CO)

### 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 I Form relay with a 5 Volt coil and external magnetic shield

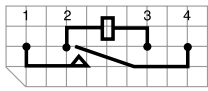
See next page for: **Electrical and Operating Characteristics Description and Coil Characteristics**

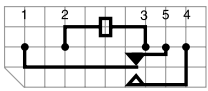
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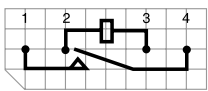
**Table 2 HE3300 Series**  **Electrical and Operating Characteristics @ 25°C.**

Column Number			1	2	3
<b>Contact Type</b>			<b>Form A SPST-NO Standard</b>	<b>Form A SPST-NO High Voltage</b>	<b>Form C SPST-CO Standard</b>
<b>Relay Types</b>			<b>HE3321A</b>	<b>HE3351A</b>	<b>HE3321C</b>
<b>CONTACT RATINGS</b> 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	10 300 0.5 1.5	5 175 0.25 1.5
<b>VOLTAGE HOLD-OFF</b>	Across Open Contacts Contacts to Coil	Vdc - min. Vac - min.	250 2500	450 2500	200 2500
<b>RESISTANCE</b>	Contact, Initial Insulation: Across Open Contacts Between Isolated Terminals	$\Omega$ - max. $\Omega$ - min. $\Omega$ - min.	0.150 $10^{10}$ $10^{10}$	0.150 $10^{10}$ $10^{10}$	0.200 $10^9$ $10^{10}$
<b>TIMING</b>	Operate Time Release Time	ms - max. ms - max.	1.0 1.0	1.0 1.0	3.0 3.0
<b>ENVIRONMENTAL</b>	Temperature, Operating Temperature, Storage Vibration Resistance  Shock Resistance	$^{\circ}\text{C}$ $^{\circ}\text{C}$ G - max. 10-2000 Hz. G - max. 11 ms, $\frac{1}{2}$ 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

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

Contact Form & Type	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	See Figure 1	HE3321A0500	5	500	3.75	0.5	22	
			HE3321A1200	12	500	9.0	1.0	22	
			HE3321A2400	24	2000	18.0	2.0	44	

IC SPDT-CO	See Table 2 Column 3	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	

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	

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