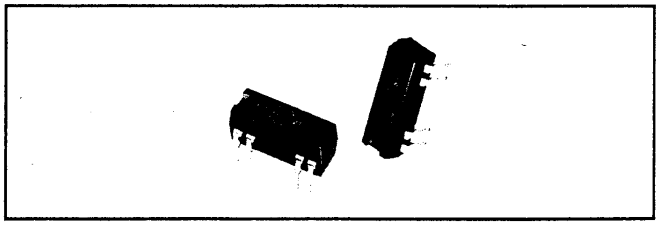
700 SERIES

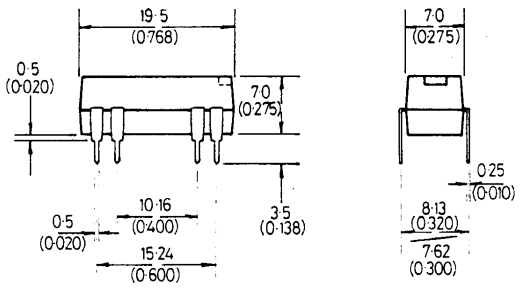
DUAL-IN-LINE Reed Relays

- transfer molded relays in IC style packages
- designed for automatic insertion into IC-sockets or PC boards

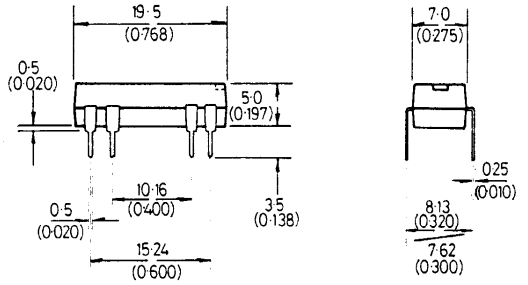


1 Dimensions (in mm, ( ) = in inches)

Standard



Low Profile



2 General Specifications

Electrical Data

Voltage Hold-off (at 50 Hz, 23° C, 40% RH)	
coil to contact	500 V d.c.
(for relays with contact type 5, spare pins removed	2500 V d.c.)
coil to electrostatic shield	150 V d.c.
between all other mutually insulated terminals	500 V d.c.
Insulation resistance (at 23° C, 40% RH) coil to contact	10^{10} Ω min. (at 100 V d.c.)

Mechanical Data

Shock (for Hg-wetted contacts	50 g (11 ms) 1/2 sine wave 5 g (11 ms) 1/2 sine wave)
Vibration (for Hg-wetted contacts	20 g (10–2000 Hz) consult HAMLIN office)
Temperature Range (for Hg-wetted contacts	−40 to +85° C −38 to +85° C)
Drain time (for Hg-wetted contacts)	30 sec. after reaching vertical position
Mounting (for Hg contacts type 3	any position 30° max. from vertical)
Pins	tin plated, solderable, ⍁⌀0,6 mm (0.0236") max.

3 Contact Characteristics

Contact type number		2	2	3	4	5
Characteristic		Dry		Hg-wetted	Hg-wetted all position	Dry pressurized
Contact Form		A	B/C	A	A	A
Contact Rating, max.	W	10	3	50	3	10
Switching Voltage, max.	V d.c.	200	200	400	28	300
Switching Current, max.	A	0.5	0.25	2.0	0.10	0.5
Carry Current, max.	A	1.5	1.2	3.0	1.0	1.5
Min. Voltage Hold-off across contacts	V d.c.	250	250	1000	1000	800
Insulation Resistance, min.	Ω	10^{10}	10^{9}	10^{10}	10^{10}	10^{10}
Initial Contact Resistance, max.	Ω	0.200	0.200	0.070	0.100	0.200

Operating life (in accordance with ANSI, EIA/NARM-Standard) – Number of operations

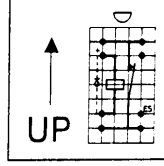
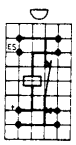
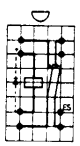
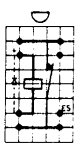
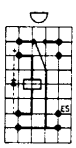
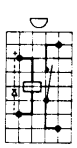
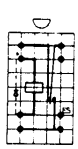
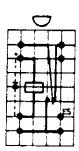
Load	10 mA/5 V d.c.	5×10^7	10^7	10^9	10^7	5×10^7
	100 mA/12 V d.c.	10^7	7×10^6	10^9	5×10^6	10^7
	250 mA/28 V d.c.	5×10^6	–	10^8	–	5×10^6
	1 A/28 V d.c.	–	–	4×10^7	–	–
	10 mA/220 V a.c.	–	–	4×10^7	–	4×10^6

4 Coil characteristics (at 23° C)

Contact form	Coil voltage V d.c.	Relay part number*	Coil resistance Ω (±10%)	Must operate voltage max. V d.c.	Must release voltage min. V d.c.	Operate time max. ms	Release time** max. ms
Dry contacts							
1 A Low Profile	5	HE721A04□□	500	3.80	0.8	0.5	0.5
	5	HE721A05□□	380	3.50	1.0		
	12	HE721A12□□	530	8.00	2.0		
	15	HE721A15□□	2000	11.50	3.0		
	24	HE721A24□□	2000	16.00	4.0		
1 A Standard	5	HE721A05□□	500	3.75	0.5	0.5	0.5
	12	HE721A12□□	1000	8.00	1.0		
	24	HE721A24□□	2150	16.00	2.0		
2 A	5	HE722A05□□	200	3.75	0.5	0.5	0.5
	12	HE722A12□□	500	8.00	1.0		
	24	HE722A24□□	2150	16.00	2.0		
1 B	5	HE721B05□□	200	3.75	0.5	0.5	0.5
	12	HE721B12□□	500	8.00	1.0		
	24	HE721B24□□	2000	16.00	2.0		
1 C	5	HE721C05□□	200	3.75	0.5	1.5	1.5
	12	HE721C12□□	500	8.00	1.0		
	24	HE721C24□□	2000	16.00	2.0		
Hg-wetted contacts – 30° from vertical							
1 A	5	HE731A05□□	55	3.75	0.5	2.0	2.0
	12	HE731A12□□	300	9.00	1.0		
	24	HE731A24□□	1100	18.00	2.0		
Hg-wetted contacts – all position							
1 A	5	HE741A05□□	55	3.75	0.5	3.0	3.0
	12	HE741A12□□	300	9.00	1.0		
	24	HE741A24□□	1150	18.00	2.0		
High voltage hold-off contacts							
1 A	5	HE751A05□□	500	3.75	0.5	0.5	0.5
	12	HE751A12□□	1000	8.00	1.0		
	24	HE751A24□□	2150	16.00	2.0		

* Please specify the missing digits □ of relay part number as shown in the ordering guide.
** Release time will be increased with diode option.
Note: Electrostatic shield not available on low profile versions.
On most types magnetic shield option is available. For details contact HAMLIN sales office.

5 Connections (viewed from above) – 2.54 mm (0.1") grid

1 Form A, Standard and Option 5, HE721A, HE 731A, HE 741A	**1 Form A**, Option 1 and 6, HE 721A	**2 Form A** HE722A	**1 Form B** HE721B	**1 Form C** HE721C	**1 Form A** HE751A	**1 Form C** HE721E	**1 Form C** HE721R
							

UP indicates mounting position for relays with Hg-wetted contact type 3.

ES = indicates pin for electrostatic shield

6 Ordering guide

HE7 □ □ □ □□ □ □

Cont. type number	Number of contacts	Contact form	Nominal voltage	Package version	Pin configuration
2, 3, 4, 5	1 – 2	**A** = Form A **B** = Form B **C** = Form C **E** = Form C common pin: 14 **R** = Form C common pin: 1	**04*** = 5 V d.c. 500Ω coil **05** = 5 V d.c. **12** = 12 V d.c. **24** = 24 V d.c.	**0** = standard **1** = with diode **2** = with electrostatic shield **3** = with diode and electrostatic shield	**0** = High profile, standard wiring **1** = High profile Option 1 wiring **5** = Low profile Option 5 wiring **6** = Low profile Option 6 wiring

* This code is only valid for low profile version (option 5 and 6).

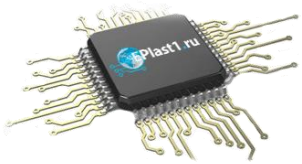
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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