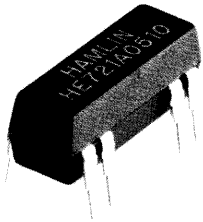


# HE700

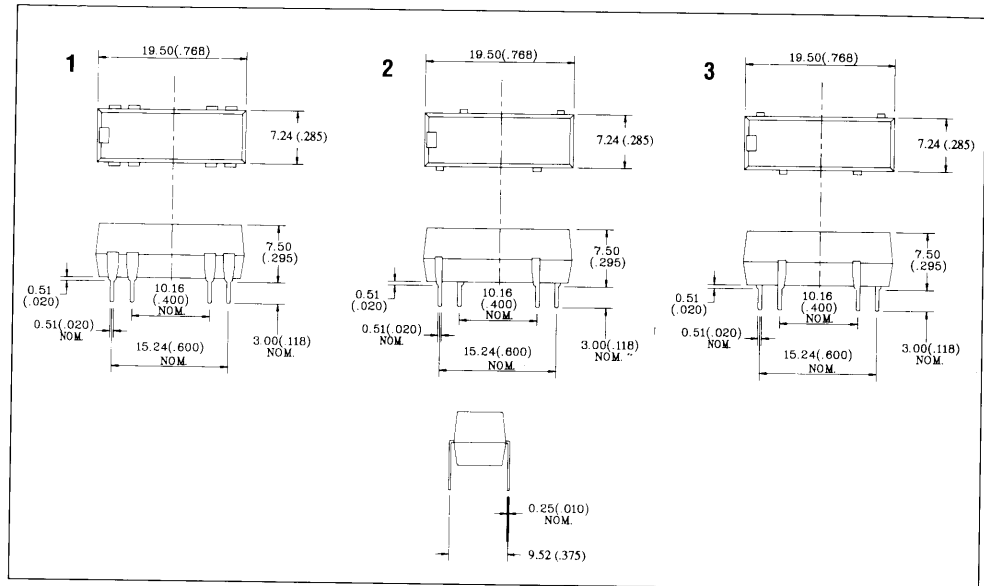
## S E R I E S



### DUAL IN-LINE REED RELAYS

- Transfer Moulded Body
- Dry & Mercury-Wetted Contacts
- High Voltage Contacts
- Data Isolation Option

**TABLE 1 - DIMENSIONS** NOTE: Max. unless indicated otherwise.



**TABLE 2 - ELECTRICAL AND OPERATING CHARACTERISTICS**

Column Number		1	2	3	4	5
		Form A Dry Reed Standard	Form A Hg. Wetted High Voltage	Form C Dry Reed Standard	Form A Dry Reed Data Isolation	
Characteristics	Units					
<b>CONTACT RATINGS</b>						
Power, Switching	Watts, Maximum	10	10	50	3	10
Voltage, Switching	Vdc, Maximum	200	300	500	175	200
Current, Switching	Amperes, Maximum	0.5	0.5	2	0.25	0.5
Current, Carry	Amperes, Maximum	1.2	1.2	4	1	1.2
<b>CONTACT RESISTANCE</b>						
Initial	Ohms, Maximum	0.200	0.200	0.070	0.200	0.200
Operating Temperature	Degrees, Celsius	-40 to +85	-20 to +85	-20 to +85	-40 to +85	-40 to +85
Storage Temperature	Degrees, Celsius	-40 to +105	-40 to +105	-38 to +105	-40 to +105	-40 to +105
Mounting Position	Degrees from Vertical	Any	Any	30	Any	Any
Vibration Resistance	G's, Max., 10-2000 Hz	20	20	Contact Hamlin	20	20
Shock Resistance	G's, Max., 11ms 1/2 sine	50	50	5	50	50
<b>INSULATION RESISTANCE</b>						
Across Open Contacts	Ohms, Typical	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>9</sup>	10 <sup>10</sup>
Between Isolated Pins		10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>
<b>LIFE EXPECTANCY</b>						
	See Table on Page 5					
<b>TIMING</b>						
Operate Time	ms, Max., Incl. Bounce	1A 1.0 2A 1.0	1A 1.0	1A 3.0 2A 3.0	1C 3.0	1A 0.5
Release Time	ms, Max. Diode Suppressed	0.5	0.6	3.0	3.0	0.5
Drain Time	Seconds, Max.	•	•	30	•	•
<b>VOLTAGE HOLD-OFF</b>						
Across Open Contacts	Vdc, Minimum	250	450	1500	200	250
Coil to E. Shield	Vac, Minimum	150	•	•	150	•
Coil to Contacts	Vac, Minimum	500	2500	500	500	4000
Between Isolated Terminals	Vac, Minimum	500	500	500	500	•

# HAMLIN



**TABLE 3 – RELAY DESCRIPTION AND COIL CHARACTERISTICS**

Contact Form & Type			Nominal Coil Voltage Vdc	Coil Resistance $\pm 10\%$ @ 25°C Ohms	Must Operate Vdc @ 25°C	Must Release Vdc @ 25°C	Maximum Coil Voltage Vdc @ 25°C	Special Features	Top View 2,52 mm, 0.1 in. Grid (Numbers Do Not Appear On Relay)	
1A (1) SPST-NO Dry Reed	1	1	HE721A0500 HE721A0510 HE721A0520	5	500	3.75	0.5	22	• Diode E. Shield	
			HE721A1200 HE721A1210 HE721A1220	12	1000	8.0	1.0	31	• Diode E. Shield	
			HE721A2400 HE721A2410 HE721A2420	24	2150	16.0	2.0	46	• Diode E. Shield	
1A SPST-NO Dry Reed Data Isolating	5	2	HE721A0509 HE721A1209 HE721A2409	5	380	3.75	0.5	19	N/A N/A N/A	
				12	1000	8.0	1.0	31		
				24	2150	16.0	2.0	46		
1C (1) / SPDT-CO Dry Reed Standard Footprint (C)	4	1	HE721C0500 HE721C0510 HE721C0520	5	200	3.75	0.5	14	• Diode E. Shield	
			HE721C1200 HE721C1210 HE721C1220	12	500	8.0	1.0	22	• Diode E. Shield	
			HE721C2400 HE721C2410 HE721C2420	24	2000	16	2.0	44	• Diode E. Shield	
1C (1) SPDT-CO Dry Reed Alternative Footprint (E)	4	1	HE721E0500 HE721E0510 HE721E0520	5	200	3.75	0.5	14	• Diode E. Shield	
			HE721E1200 HE721E1210 HE721E1220	12	500	8.0	1.0	22	• Diode E. Shield	
			HE721E2400 HE721E2410 HE721E2420	24	2000	16.0	2.0	44	• Diode E. Shield	
1C SPDT-CO Dry Reed Alternative Footprint (R)	4	1	HE721R0500 HE721R0510 HE721R0520	5	200	3.75	0.5	14	• Diode E. Shield	
			HE721R1200 HE721R1210 HE721R1220	12	500	8.0	1.0	22	• Diode E. Shield	
			HE721R2400 HE721R2410 HE721R2420	24	2000	16.0	2.0	44	• Diode E. Shield	
2A (1) DPST-NO Dry Reed	1	1	HE722A0600 HE722A0610	5	150	3.75	0.5	12	• Diode	
			HE722A1200 HE722A1210	12	500	8.0	1.0	22	• Diode	
			HE722A2400 HE722A2410	24	2150	16.0	2.0	46	• Diode	
1A (1) SPST-NO Hg. Wetted High Voltage	3	1	HE731A0500 HE731A0510 HE731A0520	5	55	3.75	0.5	7	• Diode E. Shield	
			HE731A1200 HE731A1210 HE731A1220	12	300	9.0	1.0	17	• Diode E. Shield	
			HE731A2400 HE731A2410 HE731A2420	24	1100	18.0	2.0	34	• Diode E. Shield	
1A SPST-NO Dry Reed High Voltage	2	3	HE751A0510	5	500	3.75	0.5	22	Diode	
			HE751A1210	12	1000	8.5	1.0	31	Diode	
			HE751A2410	24	2150	16.0	2.0	46	Diode	

**Notes HE700:** 1) For diode and electrostatic shield, replace last two digits of the part number with 30. 2) External magnetic shield available.  
3) Low profile Form A available .225 (5.72mm) high. 4) Form B, SPST-NC available. Contact sales office for details.