HALF SIZE CRYSTAL CAN RELAY 2 AMPERE SENSITIVE

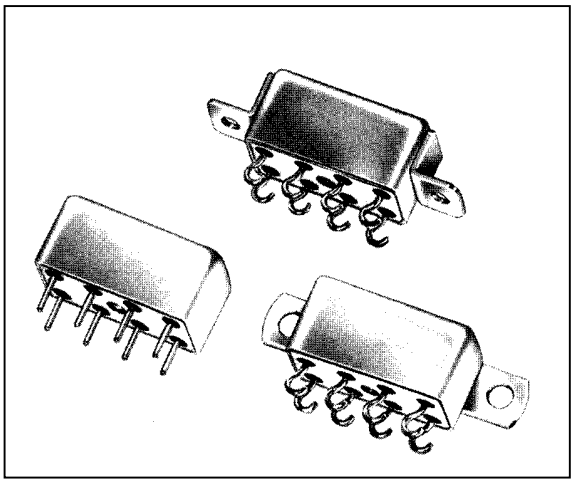
Series KA

Product Description

Innovation and versatility of design has allowed Nuova Hi-G Italia to achieve this improved sensitivity of our basic military qualified product. The product reflects an improved magnetic circuit powering our standard contact structure to levels of 2 amperes. The internal structures reflect and conform to the latest military specifications and are supported by a continuing qualification program. Product performance, reliability and sensitivity are reflected in this unique device and provide the design engineer with a tool for improved circuit design.

The following construction features ensure the highest reliability in extreme environments:

- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- Low level to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating
- Frame, armature designs and force / mass ratio provides exceptional immunity to shock and vibration.



Series Type

- **2KA** 2 form C, DPDT

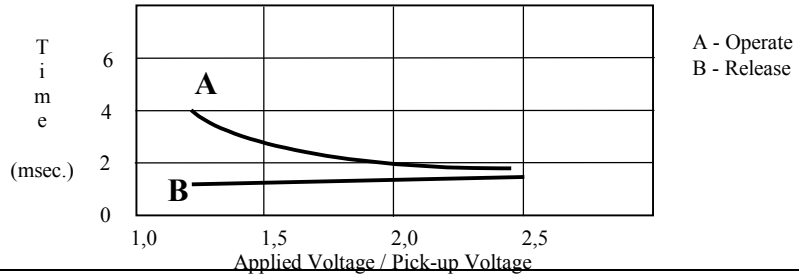
Environmental and Physical Specifications

Temperature (Ambient)	- 65°C to + 125°C
Shock	100 g, 6 msec.
Vibration (sinusoidal)	20 g, 10 to 2000 Hz
Acceleration	30 g
Sealing	All welded, Hermetic
Weight	0,40 oz. (11,3 grams) max.

Electrical Characteristics (over the Temperature range. Unless otherwise noted)

Coil Data	See Typical Characteristics chart		
Contact Rating	**Type Load**	**Contact Load**	**Cycles min.**
(Note: All ratings with grounded case)	Low Level	10 mA / 30 mV	1.000.000
	Resistive	2 A / 28 Vdc	100.000
		1 A / 115Vac, 400 Hz	100.000
		0,3 A / 115 Vac, 60 Hz	100.000
	Overload	4 A / 28 Vdc	100
	Inductive	0,75 A / 28 Vdc (200 mH)	100.000
Contact Resistance	0,05 Ω max. initial		
Operate Time	5,0 msec. max. at 25°C		
Release Time	3,0 msec. max. at 25°C		
Contact Bounce	3,0 msec. max. at 25°C		
Dielectric Strength	1.000 Vrms min., 60 Hz, all points, 500 Vrms min. between open contacts and coil to case, at sea level		
Insulation Resistance	1.000 MΩ min. all points at 500 Vdc		
Intercontact Capacitance	2,5 pF between contacts		
Sensitivity	100 mW at pick-up, 280 mW typical at nominal rated coil voltage, at 25 °C		

Figure 1 - Operate & Release Time curves vs. Applied Voltage



Note:
Typical characteristics are based on factory knowledge. Test to ensure compliance, are not performed.

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2 AMPERE SENSITIVE

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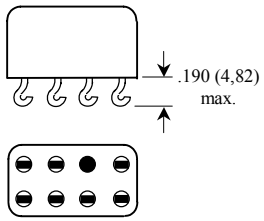
Typical Characteristics

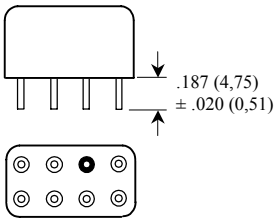
Voltage Code	Coil Voltage		Coil Resistance ± 10% at 25°C	Pick-up Vdc Max. at 25°C	Drop-out Vdc Min. at 25°C
	Nominal	Max.			
105	5,0	6,0	90	3,7	0,25
106	6,0	7,2	130	3,6	0,35
112	12,0	14,0	520	7,2	0,7
118	18,0	21,0	1100	11,0	1,0
124	24,0	29,0	2070	17,5	1,4
126	26,5	32,0	2070	14,4	1,4
136	36,0	43,0	4550	26,0	2,2
148	48,0	57,6	8300	28,8	2,8

Terminal Styles

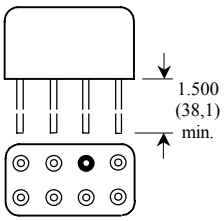
1 Solder Lug



2 Plug in

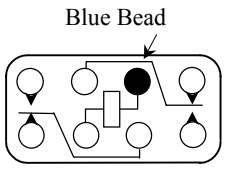


4 Wire Lead



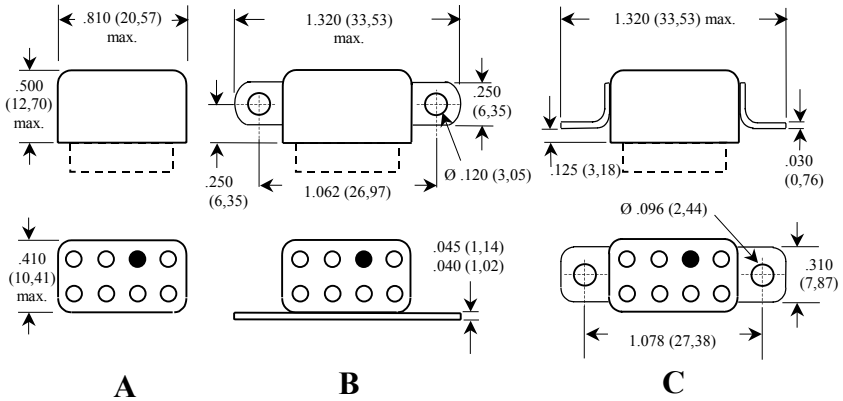
Note:
- Dimensions are shown in inches (millimetres)
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) + .003 (0,08) - .002 (0,05)

Schematic Diagram



Note:
- Schematics are viewed from terminals

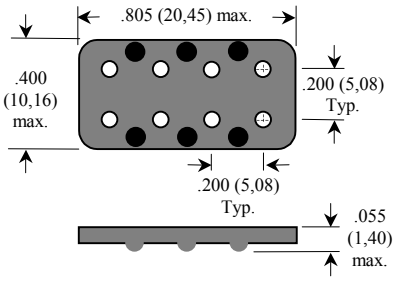
Mounting Styles



Note:
- Dimensions are shown in inches (millimetres)

Insulating Pad

Relays can be supplied with a insulating pad epoxied to the relay header, to prevent the possible shorting of printed circuit board land lines and to facilitate circuit board cleaning. To order relay with pad add. "**P**" to Part Number. Example: **2KA-2A-126 P**



Note:
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How to Order (Part Numbering System)

2KA - 2 A - 126 P

Series	
Terminal Style	Insulating Pad (optional)
Mounting Style	Voltage Code