



FULL SIZE CRYSTAL CAN RELAY SENSITIVE 100 MILLIWATT

Series
BA

Product Description

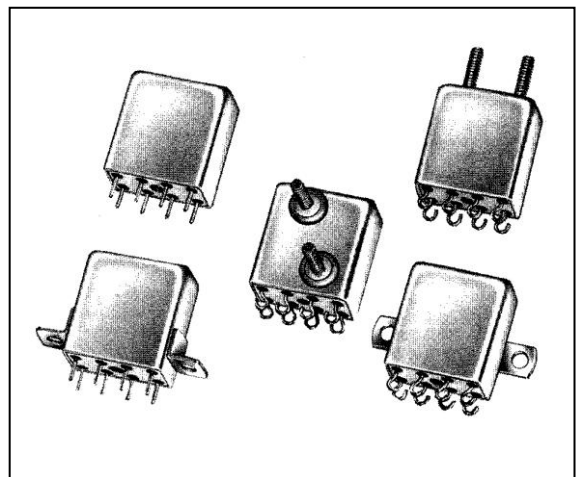
This ultra sensitive full size crystal can relay series offers switching capability of low level signals up to 2 amperes under the most extreme environmental conditions. It is low coil sensitivity and high contact current carrying capacity makes these relays ideal for a variety of applications. In a unique design, motor efficiency and the proven contact structure of qualified relays, offers sensitivities from 100 milliwatts with low level switching up to 2 amperes, low profile, proven designs and wide selection of coil values to provide the designer with a consistent high quality product for today's and tomorrow design.

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

- All welded relay construction
- Cleaning and sealing techniques ensure maximum internal cleanliness
- Low level up to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating

Series Type

- 2BA 2 form C, DPDT



Environmental and Physical Specifications

| | |
|------------------------|----------------------------|
| Temperature (Ambient) | - 65°C to + 125°C |
| Shock | 100 g, 6 ms. |
| Vibration (sinusoidal) | 15 g, 10 to 2000 Hz |
| Acceleration | 30 g |
| Sealing | All welded, Hermetic |
| Weight | 1,0 oz. (28,35 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 |
| | Overload | 0,3 A / 115 Vac, 60 Hz | 100.000 |
| 4 A / 28 Vdc | | 100 | |
| | Inductive | 1 A / 28 Vdc (200 mH) | 100.000 |
| Contact Resistance | 0,05 Ω max. initial | | |
| Operate Time | 6,5 ms. max. at 25°C | | |
| Release Time | 4,0 ms. max. at 25°C | | |
| Contact Bounce | 3,0 ms. 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, 300 mW typical at nominal rated coil voltage, at 25 °C | | |



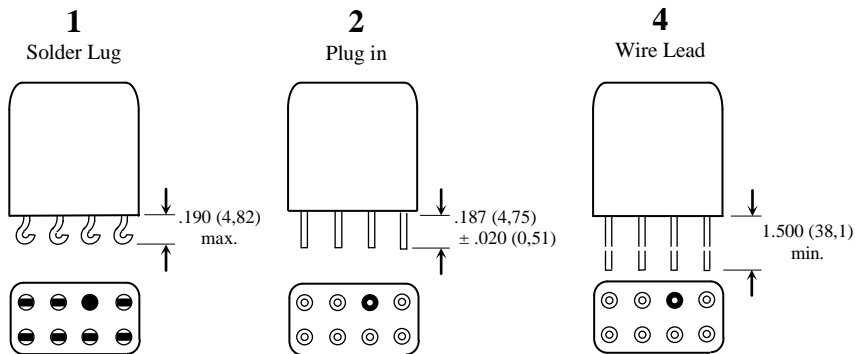
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Typical Characteristics

| Voltage Code | Coil Voltage [Vdc] | | Coil Resistance [Ω] $\pm 10\%$ at 25°C | Pick-up [Vdc] Max. at 25°C | Drop-out [Vdc] Min. at 25°C | Coil Suppression [Vdc] |
|--------------|--------------------|------|--|-------------------------------|--------------------------------|------------------------|
| | Nominal | Max. | | | | |
| 106 | 6,0 | 7,2 | 120 | 3,5 | 0,5 | 47 |
| 112 | 12,0 | 14,4 | 480 | 7,0 | 1,0 | 47 |
| 126 | 26,5 | 32,0 | 2250 | 15,0 | 2,0 | 47 |

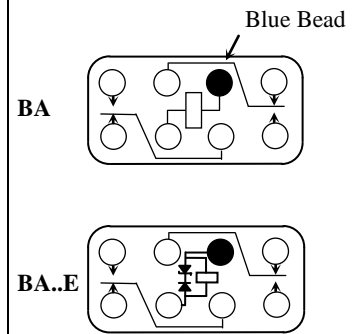
Terminal Styles



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)

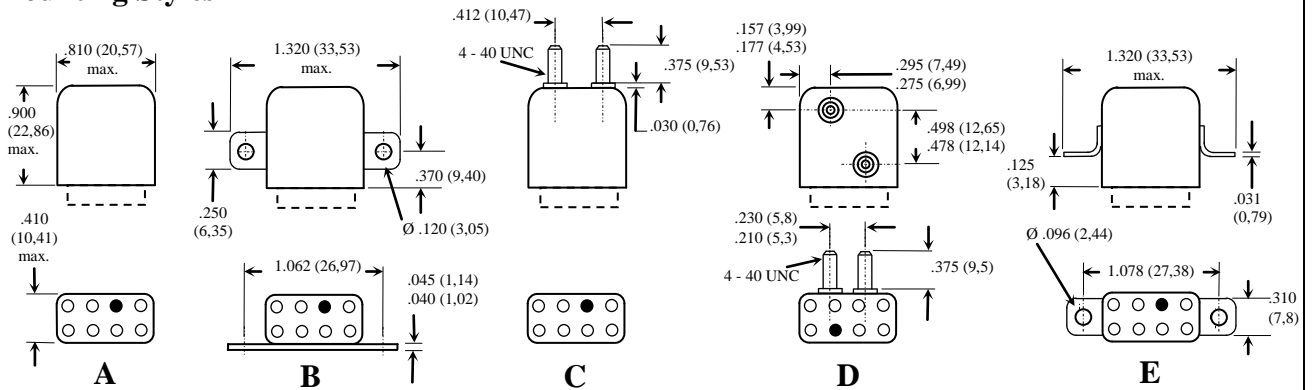
Schematic Diagram



Note:

- Schematics are viewed from terminals

Mounting Styles



Note:

- Dimensions are shown in inches (millimetres)

How to Order (Part Numbering System)

| | | | | | | | | | |
|----------------|------------|---|----------|---|---------------------------|------------|---|---|----------------------------------|
| Series | 2BA | - | 2 | A | - | 126 | P | E | With internal voltage suppressor |
| Terminal Style | | | | | Insulating Pad (optional) | | | | |
| Mounting Style | | | | | Voltage Code | | | | |