


FEATURES

- Energy Saving Latching Operation
- Single or Dual Coil
- Manual Switch on Top or Sealed without Switch
- 39 x 25 x 15mm Package Dimensions


UL / CUL Ratings

| | | |
|--------------|-----------------------------|--------|
| Contact Form | 1 Form A SPST N.O. | |
| Rated Load | Voltage | Amps |
| | Resistive, 50K cycles, 40°C | 277VAC |

CHARACTERISTICS

| | |
|-----------------------|---|
| Insulation Resistance | 1,000M Ω min. at 500 VDC |
| Dielectric Strength | 4000V rms, between coil & contacts |
| | 1500V rms, between contact |
| Power Consumption | 1.5W Single Coil, 2 x 3.0W Dual Coil |
| Terminal Strength | 10N |
| Solderability | 260°C 5s \pm 0.5s |
| Operating Temperature | -40°C to 70°C |
| Storage Temperature | -40°C to 125°C |
| Shock Resistance | 98m/s ² for 11 ms functional |
| Vibration Resistance | 1.5m double amplitude 10 Hz ~ 55 Hz |
| Weight | 25g |

CONTACT DATA

| | | |
|-----------------------------------|---------------------------|--------------------------------|
| Maximum Switching Power | 13,850VA | |
| Maximum Switching Voltage | 440VAC | |
| Maximum Switching Current | 50A | |
| Minimum Operating Contact Current | 10mA @ 6VDC & 25°C | |
| | 100mA @ 5VDC | |
| Material | AgSnO ₂ | |
| Initial Contact Resistance | \leq 20 m Ω max. | |
| Service Life | Mechanical | 5 x 10 ⁶ operations |
| | Electrical | 1 x 10 ⁵ operations |

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

ORDERING INFORMATION

| | | | | | | | |
|-----------------|--|-----|-----|-----|---|----|----|
| Example | PC10L | -50 | -1A | -12 | C | -R | -X |
| Model: | PC10L | | | | | | |
| Contact Rating | 50 = 50A | | | | | | |
| Contact Form | 1A | | | | | | |
| Contact Voltage | 6 = 6VDC | | | | | | |
| | 9 = 9VDC | | | | | | |
| | 12 = 12VDC | | | | | | |
| | 24 = 24VDC | | | | | | |
| | 48 = 48VDC | | | | | | |
| Enclosure | Nil = Dust Cover | | | | | | |
| | C = Sealed, no manual switch, non-washable | | | | | | |
| Coil | Nil = Single Coil 1.5W | | | | | | |
| | D = Dual Coil 2 x 3.0W | | | | | | |
| Polarity | Nil - Standard | | | | | | |
| | R = Reverse Polarity | | | | | | |
| RoHS Compliant | -X | | | | | | |

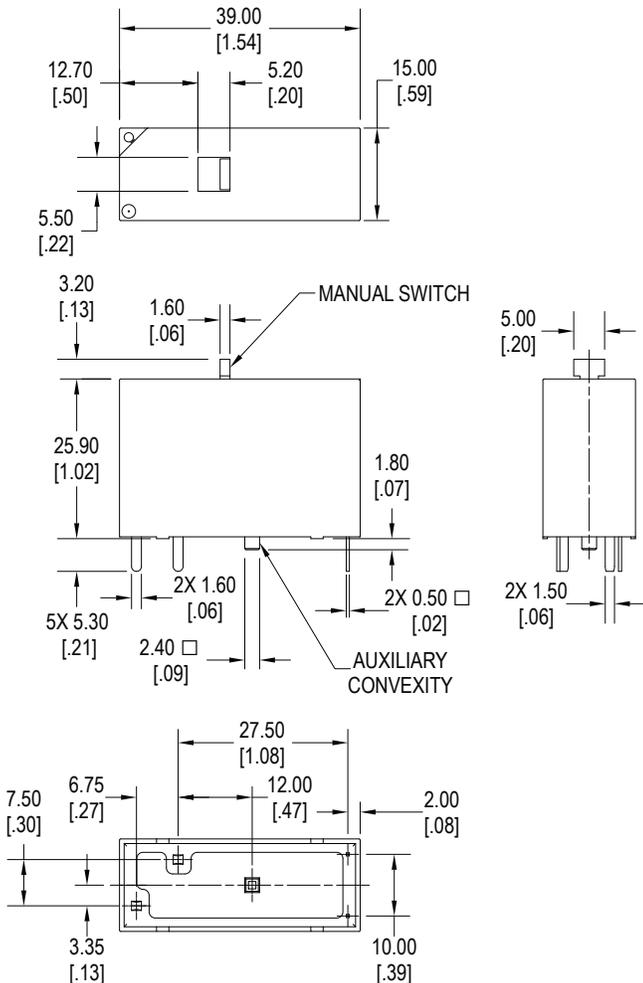
COIL DATA - Single Coil

| Coil Voltage | | Resistance (Ohms ± 10%) | Pick Up Voltage Max. VDC | Pulse Magnitude ms | Coil Power W | Operate Time ms | Release Time ms |
|--------------|------|----------------------------|-----------------------------|-----------------------|-----------------|--------------------|--------------------|
| Rated | Max | | | | | | |
| 6 | 7.8 | 24 | 4.5 | ≥50 | 1.5 | 15 | 15 |
| 9 | 11.7 | 54 | 6.75 | | | | |
| 12 | 15.6 | 96 | 9.00 | | | | |
| 24 | 31.2 | 384 | 18.00 | | | | |
| 48 | 62.4 | 1536 | 36.00 | | | | |

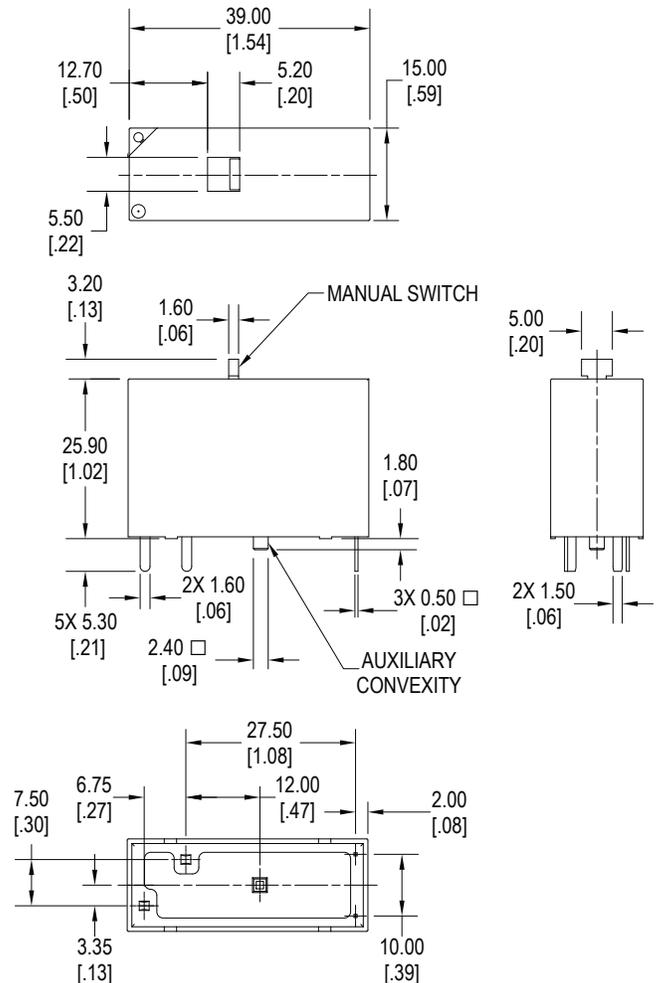
COIL DATA - Dual Coil

| Coil Voltage | | Resistance (Ohms ± 10%) | Pick Up Voltage Max. VDC | Pulse Magnitude ms | Coil Power W | Operate Time ms | Release Time ms |
|--------------|------|----------------------------|-----------------------------|-----------------------|-----------------|--------------------|--------------------|
| Rated | Max | | | | | | |
| 6 | 7.8 | 12 | 4.5 | ≥50 | 3.0 | 15 | 15 |
| 9 | 11.7 | 27 | 6.75 | | | | |
| 12 | 15.6 | 48 | 9.00 | | | | |
| 24 | 31.2 | 192 | 18.00 | | | | |
| 48 | 62.4 | 768 | 36.00 | | | | |

DIMENSIONS Inches (mm)



1A Single Coil



1A Dual Coil

SCHEMATICS & PC LAYOUT *Bottom Views*



1A Single Coil



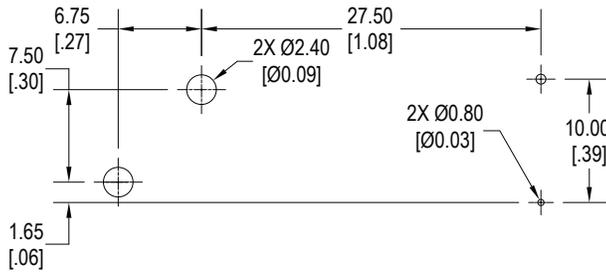
1A Single Coil Reverse Polarity



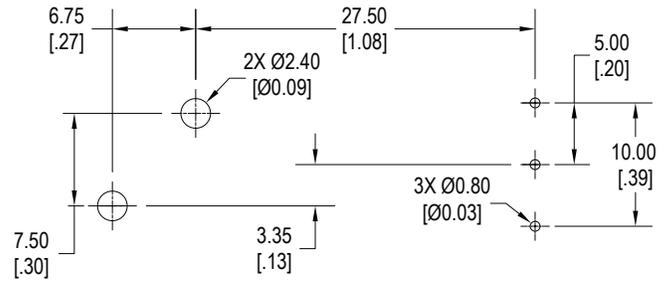
1A Dual Coil



1A Dual Coil Reverse Polarity



1A Single Coil



1A Dual Coil