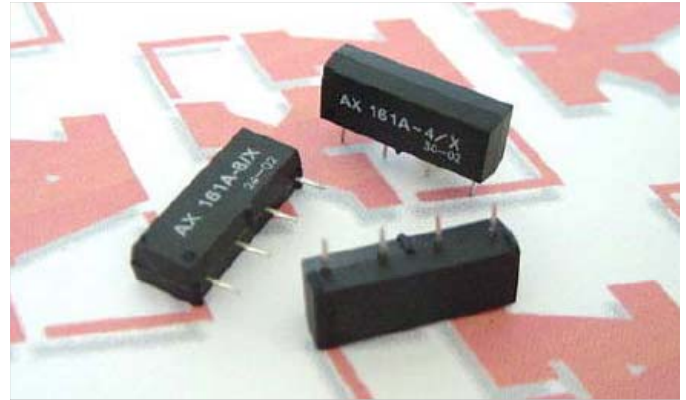


160 Series SIL Relays

The Astralux 160 series single-in-line reed relays comply with internationally recognized I.C style packaging. Available in a standard 4 pin reduced profile package the design provides a normally open contact and a range of coil voltages, with optional diode protection.

Design Features

- SIL for maximum board density
- High density in line pin spacing
- Low profile for 0.5 inch board spacing
- Automatic insertion potential
- Moulded package resistant to moisture ingress from cleaning agents
- High input/output isolation to all points
- Stable contact resistance
- Fast operate and release times
- Models available with normally closed contacts



| Dimensions | Technical Data | | | |
|-------------------------------|------------------------------|---|-------------|--------------|
| | Contact Rating DC | VDC | AMPS | WATTS |
| | (Max) | 100 | 0.5 | 10 |
| | Contact Resistance | | | |
| | (Initial) | 150 milliohms | | |
| | Isolation Voltage | | | |
| | Contact to contact | 200 VDC minimum | | |
| | Coil to contact | 1500 VDC typical | | |
| | Insulation Resistance | | | |
| | Coil to contact | 10 ⁹ ohms at 25°C and 40%RH measured at 85 VDC | | |
| | Contact to contact | 10 ⁹ ohms at 25°C and 40%RH measured at 85 VDC | | |
| Operate Time | | | | |
| @ Nom. Coil drive inc. bounce | 1.0 ms max. | | | |
| Temperature Range | | | | |
| Operate | -40°C to 85°C | | | |
| Storage | -40°C to 100°C | | | |

| Coil Data (@25°C) | | | | | | | |
|--------------------------|--------------------|-------------|-------------------|------------------------|----------------|-----------------|------------|
| Form | Circuit Schematics | Part Number | Nom. Coil Voltage | Coil Res. ±10% at 25°C | Must Op. Volts | Must Rel. Volts | Max. Volts |
| SIL 4 PIN 1 FORM A | | 161A-1 | 5V | 500Ω | 3.75V | 0.5V | 7.5V |
| | | 161A-3 | 12V | 1000Ω | 9.0V | 1.2V | 18.0V |
| | | 161A-7 | 24V | 2000Ω | 18.0V | 2.4V | 36.0V |
| | | 161A-2 | 5V | 500Ω | 3.75V | 0.5V | 7.5V |
| | | 161A-4 | 12V | 1000Ω | 9.0V | 1.2V | 18.0V |
| | | 161A-8 | 24V | 2000Ω | 18.0V | 2.4V | 36.0V |

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