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Racal Instruments™ 1260-111/111A

High-Power Reed Form A/B Plug-In

The Racal Instruments™ 1260-111/A is a high-voltage/current-dry reed relay that is rated for 1,000,000 operations at a 60 W load. This card is optimized for high-voltage/current switching applications, and can be mixed and matched with other cards in the 1260-1XX family to create application-specific configurations.

Key Features

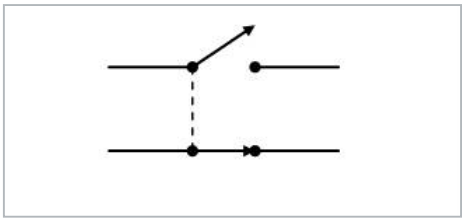
- **Twelve form A and 12 form B independent dry-reed relays**
- **Up to one million operations at full-rated load**
- **Switches up to 1000 VDC/VAC$_{pk-pk}$**
- **Carry- or hot-switch 2 A and up to 60 W**
- **Ideal for high-voltage/current/density switching systems**
- **Standard Adapt-a-Switch™ plug-in designed for ease of replacement**

Product Information

The 1260-111/A, like all 1260-1XX series cards, can be used in either the 1260-100 Adapt-a-Switch™ Carrier for VXIbus or the 1256 Switching Chassis for GPIB/RS232 applications. Up to 72 form A/B relay channels will fit in a 1260-100 Carrier, while up to 96 will fit in a single 1256.

When used with the 1260-100 Adapt-a-Switch™ carrier, the 1260-111 requires a Racal Instruments™ Option 01T to communicate with the switch cards. This option additionally provides message-based operation for ease-of-use and register-based operation for maximum speeds. When used with the 1256 mainframe, no additional controller is required.

The Adapt-a-Switch™ line includes drivers for LabWindows™/CVI and LabVIEW™ for VXI applications. It also includes VXI*plug&play* support for frameworks based on Microsoft Win32® application programming interface.



12 Form A Relays
12 form B Relays
1 Form A and 1 Form B Shown
Jumper shown for model 1260-111A only

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Specifications

Note: The EADS North America Test and Services policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Input

Maximum Switching Voltage
- 1000 VDC/VAC$_{pk-pk}$

Maximum Switching Current
- 2 ADC or 2 AAC

Maximum Switching Power
- 60 W

Minimum Breakdown Voltage
- 1.5 V

DC Performance

Initial Path Resistance
- ≤500 mΩ

Thermal EMF
- ≤40 µV

Insulation Resistance
- ≥10^9 Ω

AC Performance

Bandwidth
- ≥60 MHz

Insertion Loss
- ≤0.1 dB to 1 MHz
- ≤0.5 dB to 10 MHz

Isolation
- ≥40 dB to 1 MHz
- ≥20 dB to 10 MHz

Crosstalk
- ≤-60 dB to 1 MHz
- ≤-30 dB to 10 MHz

Capacitance
- ≤50 pF Signal to Chassis
- ≤15 pF Open Channel

Interface

Power Requirements
- +5 VDC at 0.75 A Max

Front Panel I/O Interface Connector
- 1 to 48 pin DIN

Environmental

Temperature
- Operating: 0° C to 55° C
- Storage: -40° C to 75° C:

Relative Humidity
- 85% ±5% non-condensing, ≤35° C

Altitude
- Operating: 10,000 ft
- Non-Operating: 15,000 ft

Shock
- 30 g, 11 ms, ½ sine wave

Vibration
- 0.013 in: (pk-pk), 5 to 55 Hz

Bench Handling
- 4-inch drop at 45°

Emissions/Immunity
- EN61326:1997+A1:1998

Safety
- EN61010-1:1993+A2:1995

Switching Time
- ≤2 ms (includes settling time)

Rated Switch Operations
- Electrical: 1,000,000 typical at 60 W resistive
- Mechanical: 100,000,000 typical

MTBF (MIL-STD-217E)
- ≥300,000 hrs

MTTR
- ≤5 min

Mechanical

Weight
- 12 oz (0.34 kg)

Dimensions
- 4.5” H x 0.75” W x 9.5” D

Cooling
- See 1260-100 or 1256 Cooling data

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions and Immunity to Electromagnetic Disturbances, and complies with European electrical safety standards.

Ordering Information

Note: When the 1260-111/111A is used in a VXI mainframe other than a 1256, a Racal Instruments™ Option 01T Smart Control Module must be installed in the mainframe’s left-most slot.

407821 : Racal Instruments™ 1260-111A

Adapt-a-Switch™ Module, 12 Form A/B High-Power Reed Relay

407821-001 : Racal Instruments™ 1260-111

Adapt-a-Switch™ Module, 12 Form A, 12 Form B High-Power Reed Relay

Accessories:

OPT-405108-001 : Racal Instruments™ Option 01T Smart Card Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Card Module (not installed) with manual

407664-001 : 48-pin High-Voltage Connector Kit with Strain Relief

602258-900 : Extra 24 Gauge contact

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