

## Power Switch Plug-in

Racal Instruments $1260-121 \mathrm{~A} / \mathrm{B}$ is a 12 -channel SPDT switching card for use in either the 1260-100 VXIbus Carrier or the 1256 GPIB/RS-232 Switching Mainframe..

Each channel of the $1260-121$ A/B switches up to 10 AAC, making it the ideal solution for applications requiring high-current switching of $A C$ and DC power supplies, as well as current sources.

The 1260-121 A/B is available in two versions. Version "A" has a screw terminal block interface, and version "B" has 2 interface connectors. A set of mating connectors is supplied with the card.

The front panel of the " $B$ " version houses an external "Emergency Reset" which opens all relays when triggered to ensure safe switching in highcurrent applications.

Our advanced "Exclude" feature ensures maximum safety when switching power. This Exclude command prevents simultaneous switch closures that could cause a short or other hazardous connection.

Separate connections to both sides of the relay contacts permit each channel to function independently or to be configured as part of a custom network.

When used with Racal Instruments 1260-100 Adapt-a-Switch ${ }^{\text {TM }}$ platform, an Option 01T is required to communicate with any set of switch cards. The Option 01T provides message-based operation for ease-of-use and register-based operation for maximum speeds. When used with Racal Instruments 1256 mainframe, no additional controller is required.

As part of our Adapt-a-Switch line, Racal Instruments 1260-121 includes drivers for LabWindows/CVI and LabVIEW for VXI applications. It also includes VXIplug\&play compliant support for Windows 95/98/NT/2000 platforms.

## 1260-121A/B PRODUCT SPECIFICATIONS

## INPUT

Maximum Switchable Voltage 125 VDC or 277 VAC

## Switching Capacity

5A, 30 VDC Resistive
0.3A, 110 VDC Resistive

5A, 277 VAC General Use
10A, 125 VAC General Use
Maximum Switchable Power 1250 VA
150 W

DC PERFORMANCE
Path Resistance
$<500 \mathrm{~m} \Omega$
Insulation Resistance
$>10^{9} \Omega$
Thermal EMF
$<20 \mu \mathrm{~V}$

AC PERFORMANCE (Into $50 \Omega$
Bandwidth (-3 dB)
Low Current: 35 MHz
Power: 400 Hz
Insertion Loss
1 kHz : -1 dB
Isolation
1 kHz: > 100 dB
Crosstalk
1 kHz : <-100 dB

## Capacitance

Channel-Chassis: < 1 pF
Open-Channel: < 12 pF

## ENVIRONMENTAL DATA

Temperature
Operating: $0^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$
Storage: $-40^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$
Relative Humidity
$85 \%$ non-condensing at $<30^{\circ} \mathrm{C}$
Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.
Shock
$30 \mathrm{~g}, 11 \mathrm{~ms}, 1 / 2$ sine wave
Vibration
0.013 in. (pk-pk), $5-55 \mathrm{~Hz}$

## Bench Handling

4 -inch drop at $45^{\circ}$

EMC
Emissions
EN61326, Table 3
Immunity
EN61326, Table 1
Safety
EN61010-1

## ORDERING INFORMATION

## MODEL/DESCRIPTION

Racal Instruments 1260-121A, 12-Channel, SPDT Power Switch<br>Racal Instruments 1260-121B, 12-Channel, SPDT Power Switch<br>Racal Instruments Spare 20-Pin Mating Connector Kit<br>Racal Instruments 18-Conductor Cable Assembly, 6 ft ., 14 AWG (2 Req'd)

## PART NUMBER

407740-001
407740-002
407660
407657-018

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.

## Reliability

Rated Switch Operations
Mechanical: 5,000,000 operations
Electrical: 500,000 operation at full
rated load (resistive)

## MTBF

MIL-217FN2
979,058 hrs.
MTTR
$<5$ min.
Switching Time
10 ms (includes settling time)

Mechanical
Weight
13 oz. ( 0.45 kg )
Dimensions
$4.5^{\prime \prime} \mathrm{H} \times 0.72$ " W x $9.5^{\prime \prime} \mathrm{D}$
Emergency Reset Panel Interface
3.5 mm D phone jack


Model 1260-121 A/B
12 independent relays; 1 channel shown

