

Power Switch Module

- ◆ **Provides Switching for AC or DC Power Supplies and Current Sources**
- ◆ **Power Switch Networks May Be Configured from 20 Independent DPST Relays**
- ◆ **Switches up to 8 Amps at 250 VACrms or 5 Amps at 48VDC**
- ◆ **Carry Current up to 10 Amps**
- ◆ **Configured as 20 DPST Relays**

Racal Instruments 1260-20 is designed for high-current switching of AC line power, DC power supplies and AC or DC current sources. Power switch networks may be configured from twenty independent DPST switches. Up to 8 A at 250 VACrms or 5 A at 48 VDC may be switched through each two-wire channel.

Separate connections to both sides of the relay contacts permit each channel to function independently or to be configured as custom networks. Each channel features mounting holes for installation of series and shunt elements to serve as arc suppressors, filters, etc.

Relay coil current monitoring is available to provide confidence checking which gives the user assurance of proper relay operation.

The Option 01 or 01T switch controller is required to communicate with the 1260-20B. The Option 01 should be used for applications with existing Option 01 software, but for all new applications the Option 01T should be used. The Option 01T provides message-based operation for ease of use and register-based operation for maximum speed.

The Option 01T provides a single point of software control for the switching system with advanced features such as include, exclude, scan, relay monitoring, user defined path names, and reset states.

The 1260 series includes VXIplug&play support for WIN95/NT frameworks, including drivers for LabWindows/CVI and LabView.

1260-20 PRODUCT SPECIFICATIONS

Maximum Switchable Voltage

(Terminal-Terminal or Terminal-Chassis)
250 VDC or ACrms, 380VAC peak

Maximum Switchable Current

(DC or ACrms)
Per Channel: 8A
Per Module: 160A

Maximum Switchable Power

Per Terminal: 150WDC, 2000VA

AC PERFORMANCE (into 50Ω)

Capacitance

Open Channel: <20pF
Channel-Chassis: <20pF
High-Low: <50pF

Bandwidth (-3dB)

30MHz

Insertion Loss

100kHz: < 0.1dB
1MHz: < 0.1dB
10MHz: < 1.5dB

Crosstalk

100kHz: < -60dB
1MHz: < -40dB
10MHz: < -20dB

VXIBUS INTERFACE DATA

Cooling Requirements

Airflow: 4.0 liters/sec
Backpressure: 0.05mm H₂O

Power Requirements (I_{pm})

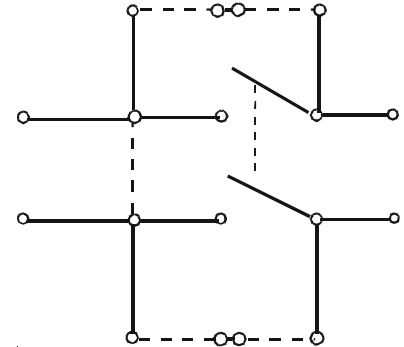
+5V: 0.4A (2.8A with Option 01 installed)
+24V: 10mA per relay (energized)

Weight

2.56lb (1.15kg) without Option 01
2.84lb (1.28kg) with Option 01

Dimensions

C-size, Single-slot VXIbus Module



Model 1260-20B

Twenty independent relays. One channel is shown, with provision for addition of series and shut elements.

TYPICAL PROGRAMMING SYNTAX

Programming syntax is in the form:

"<module address>.<channel number>"

Example: CLOSE 3.04

This CLOSE statement will close channel number 4 on the 1260-20 at the card address 3.

Note: Module is supplied with one set of mating connectors and solder pins. Additional connectors and optional crimp type pins can be ordered using the part numbers shown below.

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-20, 20 Channel, DPST, 250V, 8A Switch
Racal Instruments Option 01*, Smart Control Module (Installed)
Racal Instruments Option 01T*, Smart Control Module (Installed)
41-Pin Mating Connector Body
Mating Connector Solder Type Pin
Insertion Tool
Extraction Tool
Optional Crimp Type Mating Pins

* Either an Option 01 or 01T must be ordered with switch system. Please specify the card on which the Option will be installed.

PART NUMBER

404773
OPT-401901-005
OPT-407532-001
601850
601849
9099
9081
602089-001

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.



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