

Basic High-Density Switch Module

- ◆ **152 Channels of SPST Switches**
- ◆ **50MHz Bandwidth
Minimum 100MHZ
Bandwidth Typical**
- ◆ **Switches Signals Up to
2Amps or 250VAC**
- ◆ **Highly Density User
Configurable Switching**
- ◆ **Both “Include” and
“Exclude” Programmable
Switching**
- ◆ **Combine Several Switch
Needs on a Single Card**

Racal Instruments 1260-18 is a high-density general purpose switch module that provides 152 channels. This configuration allows the user to develop application specific switch systems with a minimum number of switch cards.

The 1260-18 provides the necessary bandwidth and current/voltage switch capability to make it the ideal general purpose switch card. The 1260-18 can be user configured in many ways switching up to 250AC or 2A per channel.

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

The 1260-18 is controlled by the Option 01 message-based interface which is explained in detail in the Smart Control Module data sheet. All 1260 control features explained in that section are available to this module.

The 1260-18 supports “equate” programming lists. This allows the user to close a group of relays on the switch module simply by sending a single command to the module. The result is a software configurable module providing the ultimate in flexibility.

1260-18 PRODUCT SPECIFICATIONS

DC PERFORMANCE

Maximum Switching Voltage

220VDC or 250VAC

Maximum Switching Current

2ADC or 2AAC

Maximum Switching Power

60W, 125VA

Path Resistance

< 0.5Ω

Thermal EMF

<15μV

AC PERFORMANCE (INTO 50Ω)

Bandwidth (-3dB)

50MHz minimum

100MHz typical

Insertion Loss

Configuration	100kHz	1MHz	10MHz
Single channel	<0.1dB	<0.25dB	<0.7dB

Crosstalk

100kHz: <-80dB

1MHz: <-70dB

Isolation

100kHz: >80dB

1MHz: >55dB

Capacitance (Open Channel)

Input to Ground: <50pF

Output to Ground: <50pF

Input to Output: <5pF

VXIBUS INTERFACE DATA

Cooling Requirements

Airflow: 1.0 liters/sec

Backpressure: 0.05mm H₂O

With Option 01S/T

Airflow: 2.0 liters/sec

Backpressure: 0.2mm H₂O

Peak and Dynamic Current

	+24V	+5V	+5V w/Option 01
I _{PM}	6mA*	400mA	2.5A
I _{DM}	0mA	75mA	225mA

* per energized relay

Dimensions

C-size, Single-slot VXIbus Module

ENVIRONMENTAL DATA

Temperature

Operating: 0° C to 55° C

Storage: -40° C to 75° C

Humidity

<30° C: 95%, ±5%, non-condensing

30° C - 40° C: 75%, ±5%

>40° C: 45%, ±5%

Altitude

Operating: 10,000 ft.

Non-Operating: 15,000 ft.

Vibration

0.013: double amplitude 5-55Hz

Weight

Slave: 3.2 lb (1.45 kg)

With Option 01:

3.5 lb (1.60 kg)

Rated Switch Operations

No load: 100,000,000

2A@50VDC: 100,000

Typical Programming Syntax

Programming syntax is in the form:

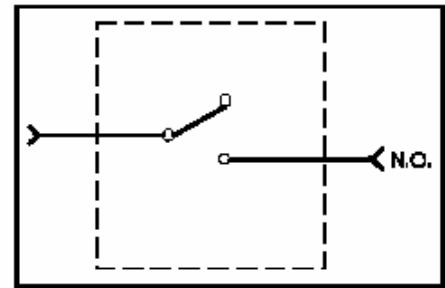
"<module address>.<channel

number>" Example: CLOSE 3.04

This CLOSE statement will close

channel number 4 on the 1260-18 at card address 3.

Note: Available mating connectors and accessories are listed below.



Model 1260-18

152 Channels

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-18, Basic High Density Switch Module

Racal Instruments Option 01, Smart Control Module (installed)

160 Pin Mating Connector Kit w/Backshell and Pins (1260-18 uses two)

Insertion Tool

Extraction Tool

160 Pin Cable Assembly, 24 Ga, 6 Feet (1260-18 uses two)

160 Pin Cable Assembly, 24 Ga, 12 Feet (1260-18 uses two)

PART NUMBER

407493

OPT-401901-005

407407

990898

990899

407408

407409

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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