

## 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 H<sub>2</sub>O

With Option 01S/T

Airflow: 2.0 liters/sec

Backpressure: 0.2mm H<sub>2</sub>O

### Peak and Dynamic Current

	+24V	+5V	+5V w/Option 01
I <sub>PM</sub>	6mA*	400mA	2.5A
I <sub>DM</sub>	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:

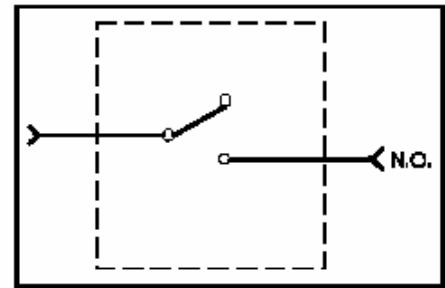
"<module address>.<channel

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

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