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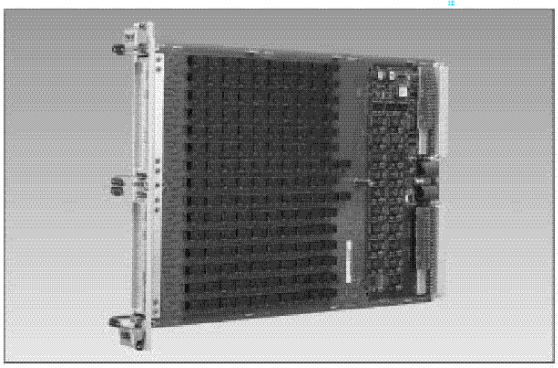
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RACAL INSTRUMENTS™ 1260-18



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.

EADS NORTH AMERICA DEFENSE

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_20
With Option 01S/T
Airflow: 2.0 liters/sec
Backpressure: 0.2mm H_20

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%

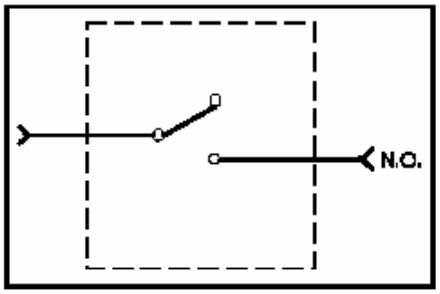
Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.

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	PART NUMBER
Racal Instruments 1260-18, Basic High Density Switch Module	407493
Racal Instruments Option 01, Smart Control Module (installed)	OPT-401901-005
160 Pin Mating Connector Kit w/Backshell and Pins (1260-18 uses two)	407407
Insertion Tool	990898
Extraction Tool	990899
160 Pin Cable Assembly, 24 Ga, 6 Feet (1260-18 uses two)	407408
160 Pin Cable Assembly, 24 Ga, 12 Feet (1260-18 uses two)	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.

EADS North America Defense Test and Services
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