

Signal Switch/Relay Actuator

- ◆ **Ideal for General Purpose Switching and Control of External Devices**
- ◆ **Each Channel Switches up to 2A and 220VDC or 250VACrms**
- ◆ **Channels Switched Jointly or Independently**
- ◆ **Easily Configured to Meet User-defined Network Requirements**
- ◆ **Configured as 40 Channels Independent DPST Switches**

Racal Instruments 1260-13 is designed for general purpose signal switching and control of external devices. The module provides forty channels of DPST switches. It features separate connections to both sides of the relay contact permitting each channel to be joined with others or to function independently. Custom relay switch networks may be configured with some relays while all remaining channels continue independent operation.

The 1260-13 can switch up to 2 amps and 220VDC or 250VACrms per channel. Each channel features mounting holes to allow the addition of series and shunt elements such as arc suppressors, fuses, filters, etc.

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

The 1260-13 is controlled by the Option 01 message-based interface. All 1260 control features explained on the Option 01 data sheet are available to this module.

1260-13 PRODUCT SPECIFICATIONS

Maximum Switchable Voltage

(Terminal-Terminal or Terminal-Chassis)
220VDC or 250VACrms

Maximum Switchable Current

(DC or AC rms)
Per Channel: 2A

Maximum Switchable Power

Per Channel: 60WDC, 62.5VA

DC PERFORMANCE

Path Resistance

300m Ω at 2A

Isolation

>10⁹ Ω

AC PERFORMANCE (into 50 Ω)

Capacitance

Open Channel: <50pF
Channel-Chassis: <50pF
High-Low: <80 pF

Bandwidth (-3dB)

50MHz typical

Insertion Loss

100kHz: <0.2dB
1MHz: <0.3dB
10MHz: <0.5dB

Crosstalk

100kHz: <-70dB
1MHz: <-50dB
10MHz: <-25dB

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

Power Requirements (I_{pm})

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

Dimensions

C-size, Single-slot VXIbus Module

Weight

2.77 lb (1.25 kg) without Option 01
3.05 lb (1.39 kg) with Option 01

Typical Programming Syntax

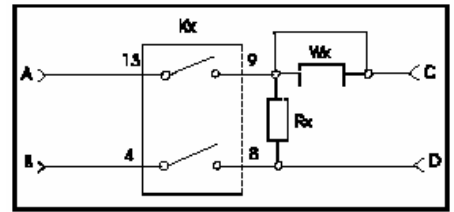
Programming syntax is in the form:

"<module address>.<channel>"

Example: CLOSE 3.03

This CLOSE statement will close channel number 3 on the 1260-13 module at card address 3.

Note: Module is supplied with one set of mating connectors. Additional connectors can be ordered using the part numbers shown below.



Model 1260-13
Forty independent relay channels. One channel is shown.

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-13, 40 Channel, DPDT
Racal Instruments Option 01, Smart Card Module (installed)*
50-Pin User Connector Body Part (4 supplied)
User Connector Solder Type Pins (200 Supplied)
Insertion Tool
Extraction Tool

PART NUMBER

404941
OPT-401901-005
601855-050
601857
9099-1
9081-1

*One Option 01 must be ordered with switch system. Please specify the card on which Option 01 will be installed

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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