



Racal Instruments™

1260-13

Signal Switch/Relay Actuator

The Racal Instruments™ 1260-13 is designed for general purpose signal switching and control of external devices.

Key Features

- Ideal for general purpose switching and control of external devices
- Each channel switches up to 2 A and 220 VDC or 250 VAC_{rms}
- Channels switched jointly or independently
- Easily configured to meet user-defined network requirements
- Configured as 40 channels of independent DPST switches

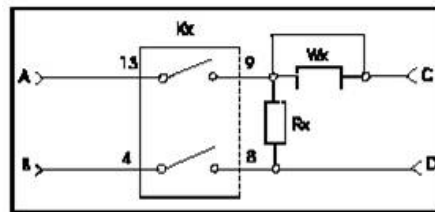
Product Information

The 1260-13 provides 40 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 A and 220 VDC or 250 VAC_{rms} 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 Racal Instruments™ Option 01 message-based interface or the Option 01T message-based and register-based interface. All 1260 control features explained on the Option 01 and Option 01T data sheets are available to this module.



40 independent relay channels. 1 channel is shown

Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Maximum Switchable Voltage (Terminal-Terminal or Terminal-Chassis)

- 220 VDC or 250 VAC_{rms}

Maximum Switchable Current (DC or AC_{rms})

- Per Channel: 2 A

Maximum Switchable Power

- Per Channel: 60 WDC, 62.5 VA

DC Performance

Path Resistance

- 300 mΩ at 2 A

Isolation

- >10⁹ Ω

AC Performance (Into 5 Ω)

Capacitance

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

Bandwidth (-3 dB)

- 50 MHz typical

Insertion Loss

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

Crosstalk

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

Interface

Power Requirements (I_{PM})

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

Mechanical

Dimensions

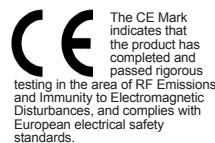
- C-size, Single-slot VXIbus Module

Weight

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

Cooling Requirements

- Without Option 01/01T
 - Airflow: 1.0 l/s
 - Backpressure: 0.05 mm H₂O
- With Option 01/01T
 - Airflow: 2.0 l/s
 - Backpressure: 0.2 mm H₂O



Ordering Information

Notes: Compatible smart controllers: A smart card must be installed in the left-most slot of a set of 1260-xx series switch cards. There are two options:

- Option 01: Native command set. For use in previously designed switching systems that used the Option 01.
- Option 01T: SCPI command set. For use in new systems and previously designed systems that used the Option 01T.

The 1260-13 is supplied with one set of mating connectors. Additional connectors can be ordered using the part numbers shown below.

404941 : Racal Instruments™ 1260-13 (Mature)

40 Channel, DPST

Options and Accessories:

OPT-401901-005 : Racal Instruments™ Option 01, Smart Control Module installed (manual must be ordered separately; see below)

404820-005 : Racal Instruments™ Option 01, Smart Control Module (not installed) with manual

OPT-405108-001 : Racal Instruments™ Option 01T Smart Control Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Control Module (not installed) with manual

601855-050 : 50-Pin User Connector Body Part (4 supplied)

601857 : User Connector Solder Type Pins (200 Supplied)

9099-1 : Insertion Tool

9081-1 : Extraction Tool



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