

## CM9760-REL Relay Interface Unit

### CONTROLS UP TO 64 RELAY CONTACT OUTPUTS PER UNIT

#### Product Features

- Each Unit Provides up to 64 Single-Pole, Single-Throw (SPST) Contact Outputs for Operating Different Peripheral Equipment
- Relay Output Contacts Can Be Configured for Normally Open (Factory Default) or Normally Closed Operation
- Memory Feature Allows Relay Groups to Retain or Hold Their Contact Position in the Event of a Power Failure or Front Panel Reset
- Multiple Units Can Be Daisy-Chained to Extend the Number of Relay Contact Outputs Controlled from a Single Port on the CC1 (More Than 5,000 Relay Outputs Can Be Configured)
- The Relay Unit Can Be Remotely Placed up to 4,000 Feet (1,219 meters) from the Controller (RS-422 Operation)

The **CM9760-REL** relay interface unit is an optional accessory for System 9700 Series matrix switchers. The unit provides dry contact switching for direct or automatic control of peripheral equipment. The unit connects to any RS-422 COM port on the rear of the CM9700-CC1.

The basic function of the relay unit is to allow the user to control various peripheral equipment through relay contacts. Each relay unit processes and executes commands only with addresses that match that of the RELs (frame address). When a relay unit receives a command with an inappropriate address, it passes it on to the next unit (if applicable) through its output port.

The front of the relay interface unit has three 10-position DIP switches that configure the communication parameters for the unit as well as setting the parameters for relay contact output operation. The front also has a red data LED that flashes when the first valid command is received.

The relay unit mounts in a standard 19-inch (48.26 cm) rack and occupies only 1 RU (1.75 inches or 4.45 cm) of rack space. For remote operation, the wiring from the relay unit to the system controller should not exceed 4,000 feet (1,219 m).

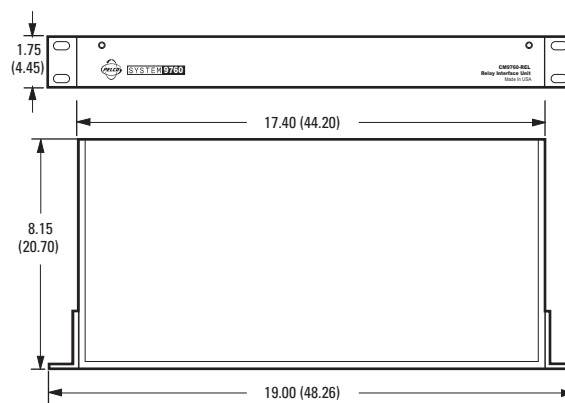
Daisy-chaining is required when more than 64 relays are needed. Each unit must be configured to have a unique frame address. Daisy-chain configurations can be used whether relay units are situated locally, remotely, or as a combination of the two.



CM9760-REL FRONT VIEW



CM9760-REL REAR VIEW



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS;  
ALL OTHERS ARE INCHES.



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International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



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# TECHNICAL SPECIFICATIONS

## MODEL

CM9760-REL Relay interface unit

## ELECTRICAL

Input Voltage	100 to 230 VAC, 50/60 Hz, autoranging
Power Consumption	30 VA (reactive consumption); 5 W (active)
Data Ports	
Input	RS-422, RJ-45 connector DIP switch selectable baud rate
Output	RS-422, RJ-45 connector DIP switch selectable baud rate
Indicators	Two power LEDs (green) One data LED (red)
Fusing	500 mA, 250 V
Relay Output	
Contact Parameters	
Maximum Switching Capacity	60 W
Maximum Operating Voltage	125 VAC/VDC
Maximum Current	2 A
Contact Resistance	75 milliohms
Rated Load Parameters	0.5 A at 125 VAC 2 A at 30 VDC

## MECHANICAL

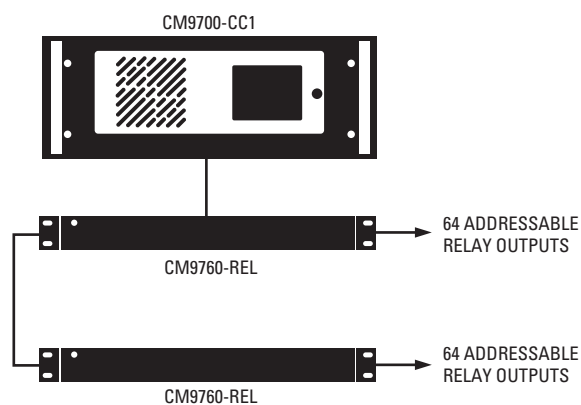
Connectors	
REL Input	Four dual-header, 32-input connectors with mating plugs
Power	3-wire, 18 AWG
RS-422	Two RJ-45 connectors
RS-232	One, DB9 connector (factory use only)
Relay Out	One, 3-pin header with mating plug

## GENERAL

Operating Temperature	32° to 122°F (0° to 50°C)
Dimensions	
Base Only	1.75" H x 17.40" W x 8.15" D (4.45 x 44.20 x 20.70 cm)
With Rack Ears	1.75" H x 19.00" W x 8.15" D (1 RU) (4.45 x 48.26 x 20.70 cm)
Mounting	Fits 19-inch EIA-standard rack
Unit Weight	8.0 lb (3.64 kg)
Shipping Weight	13 lb (5.91 kg)

## CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick



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