UC16RP8 Relay Module

DESCRIPTION
The UC16RP8 is an external relay pack with 8 changeover relays. It is used for switching high current loads and mains or 24V AC voltages. It is driven by the 0-10V outputs of a Unitron controller and the relays are opto-isolated from the control input signals. The relay pack features a quick connector for ease of connection with a UC16PG controller.

MECHANICAL
Size 120 x 130 x 45 mm
(4.72 x 5.12 x 1.78”)
Enclosure Injection moulded ABS.
Note: 8 pads on the controller label allow information about each of the relay outputs to be recorded. Accepts biro or felt tip pen.
Mounting DIN rail.
Note: Module is normally mounted directly under a UC16PG.
Weight 430g (15.17 oz)

ENVIRONMENTAL
Note: This equipment is intended for field installation within another enclosure.
Ambient Temperature 0° - 50°C (32°-122°F) ambient.
Ambient Humidity 0% - 90% RH non-condensing.
EMC Immunity EN 50082-1
EMC Emission EN 55011 class B

WIRING
Termination PCB mounted screw in terminals.
10 way DIL Quick Connector
Conductor Area Max: AWG 12 (3.09 mm²)
Min: AWG 22 (0.355 mm²)
Note: Use Copper or Copper Clad Aluminium conductors only.
It is recommended that ferrules should be used with all screw terminals.

ELECTRICAL
Supply Requirements 24 V AC +/- 20% 50/60 Hz
Power Rating 8 VA
Indicator Red light is on when power is supplied

INPUTS/OUTPUTS
Note: Screened cable is recommended for all input connections.
8 Inputs
Current: 6mA @ 10V DC each input
Voltage: 0 to 10V DC input only
Return: The Return wire is common to all inputs
Quick Connector: A quick connect to a UC16PG is possible through the use of a 10 way ribbon cable (Part No. CC12/CAB Nominal Length 457 mm.)
8 Relay Contacts Inductive Load: 5A @ 250V AC
or 5A @ 30V DC
Resistive Load: 10A @250V AC
or 10A @ 30V DC
Normally Open and Normally Closed contacts are available
Note: Relays opto-isolated from outputs of controllers.

Due to Cylon's policy of continuous improvements these specifications may be upgraded without notice.
The Quick Connector has 2 "RET" pins and inputs 1 - 8. When the Quick Connector cable is used it will connect the 8 UC16PG outputs to the 8 UC16RP8 inputs. In this case it is also possible to use UC16PG outputs as 0-10V analog outputs to other devices if the relays corresponding to each analog output are left unused.

Power input (24v AC)

IMPORTANT
Earth this controller by connecting the CMN wire (G), on the secondary side of the 24V AC transformer, to Earth at one point.

10 Way Quick Connector

When an LED is on, the corresponding relay contact is closed.

Output Labels

COM Common
NO Normally Open
NC Normally Closed

Outputs 1-8

LED Indicators

State of Relay Contacts when Green LED is off.