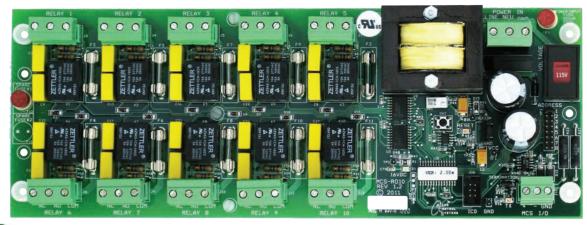


MCS-RO10 Description & Specifications





Part # MCS-RO10



Description

The MCS-RO10 provides a flexible and cost effective way to allow relay output expansion for MCS-MAGNUM and ¹MicroMag controllers. Each MCS-RO10 has a stand-alone microprocessor which communicates with a MCS MAGNUM over the MCS-I/O port at 38,400 baud. All data is check summed with auto error correction. Because the communication is over a RS-485 long distance two-wire differential network transmission system, the MCS-RO10 may be located up to 5,000 feet away. Each MCS-RO10 board is equipped with a dual voltage power transformer and an automatic power fail reset system.

The printed circuit board is a four layer board with a separate power and ground plane to provide the ultimate in electrical noise suppression. This coupled with noise suppression electronics makes the MCS-RO10 virtually impervious to electrical noise.

The MCS-RO10 provides ten relay outputs fused at 6.3 amps each using standard 5 x 20mm fuses. This allows for easy field replacement. Each relay output provides common, normally open and normally closed contacts on a removable terminal block. The terminal blocks provide screw connections which eliminate the need for sta-cons. Because the terminal blocks are removable, board replacement requires no wires to be removed.

The MCS-RO10 has the same footprint as the MCS-RO8 and can be used in place of a MCS-RO8. However, to make use of Relay Outputs 9 and 10 requires connection to a MCS-MAGNUM controller running version 8 or higher firmware.

¹MicroMag firmware and configuration software must be upgraded to Version 18.

Specifications

Controller

Controller
Dimensions 10.87"I, 4.00"w, 2.50"h
Mounting Holes Mounts on a backplane using
four #6 sheet metal screws
CoverLexan with standoffs
Operating Temperature40°F to +158°F (-40°C to +70°C)
Operating Humidity0-95% Non-Condensing
Storage Temperature40°F to +158°F (-40°C to +70°C)
Microprocessor Microchip PIC16F883 @ 8mhz
Relay Outputs (RO) 10 outputs 6.3amps @ 230vac
Printed Circuit Board Four layer with separate power
and ground planes
Input Power (Standard) 115 or 230vac ±10% 50/60Hz @
77°F (25°C) ambient, 12VA max
(Voltage is field selectable)
MCS-I/O Comm Port 1 @ 38,400 baud
Power Detection Automatic power fail reset

Options

Revision - 2017-05-24