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PEARL-MM

Relay Output PC/104 Module



- 16 SPDT (form C) relays
- Long lifetime - 100,000,000 operations
- 500VAC/DC isolation between board and signals
- Pin headers for user connections

DESCRIPTION

Pearl-MM is a PC/104 format industrial control module with 16 relays. The relays have SPDT (form C) configuration. Each relay has 3 contacts: Common, Normally Open, and Normally Closed. For safety and reliability, all relays are in their power-off state (Common connected to Normally Closed) at power-up or system reset. The relays can switch both AC and DC voltages. They feature long life (100,000,000 operations), quick actuation time (4ms max operate and release), and superior isolation (500V AC or DC).

Relay Circuit

Pearl-MM has 16 relay outputs with SPDT (form C) design. Each relay has a common (C), normally open (NO), and normally closed (NC) contact. The relays are controlled with two 8-bit control registers and have have break-before-make operation to prevent shorting.

SPECIFICATIONS

Feature	P earl -MM
# Relays	16
Relay type	SPDT (form C)
Max DC Power	30V / 2A
Max AC Power	125VAC / 0.5A resistive
Max Load	60W / 60VA
Max Op Voltage	220VDC, 250VAC
Contact Resistance	100mΩ max
Relay lifetime	100,000,000 operations
Actuation Time	4ms max, operate / release
Dimensions	3.55" x 3.775" (90mm x 96mm)
Input Power	+5VDC±10%
Operating temp	-40°C to +85°C
Weight	3.4oz / 96g

ORDERING INFORMATION

Part No.	Description
PMM -P	16 relays, pin headers

FOR MORE INFORMATION

Diamond Systems Corporation
555 Ellis Street
Mountain View, CA 94043
Tel: 650-810-2500
Fax: 650-810-2525
techinfo@diamondsystems.com

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