

# Series 16 Modules Controls – Solid State Plug-In Modules

- Compact Size
- Modular Plug-in Design
- CSA Approved
- U.L. "Motor Control"
- Solid State Reliability
- ▶ LED Monitoring
- Various Time Delays
- Low Voltage Sensor

## Series 16M – General Purpose Control

New Microprocessor Design

Designed for either differential or single-level service. U.L. "Motor Controller" listing, CSA. 8 pin socket with screw-type connections make the unit easy to install and service. Sensitivity of up to 1 million ohm/cm.

## Series 16HM – High Sensitivity Control

Series 16HM is similar to Series 16M but provides higher sensitivity up to 5.5 million ohm/cm. Probe voltage is 12 VDC for applications with low conductive media.

## Series 16DM – DPDT Load Contact

Similar to Series 16M but with DPDT load contacts. Eliminates the need for slave relays. 11 pin octal plugs. Requires little panel space. General purpose single-level or differential applications. U.L., CSA listed.

## Series 16VM – Field Selectable Sensitivity

Similar to Series 16M but with the added flexibility of field adjustable sensitivity, made possible through external setpoint resistors. Uses 11pin octal socket. U.L., CSA listed.

## **Specifications**

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Contact Design	
Series 16M & 16HM	1 N.O. & 1 N.C. (1 form C)
Series 16DM	2 N.O. & 2 N.C. (2 form C)
Series 16VM	1 N.O. & 1 N.C. (1 form C)
Contact Rating (120. 240 VAC)	
Series 16M & 16HM	10 amp Resistive 1/3 hp
Series 16DM	5 amp Resistive 1/10 hp
Series 16VM	10 amp Resistive 1/3 hp
Mode of Operation	Direct/Inverse, factory set
Sensitivity	
Series 16M	0-1M ohm, factory set
Series 16HM	0-5.5M ohm, factory set
Series 16DM	0-1M ohm, factory set
Series 16VM	0-1M ohm, field adjustable
Primary Voltage	24 VAC, 120 VAC, 240 VAC (+10%/-15%)
	208/240: 187 V min. to 255 V max. VAC 50/60 Hz
Secondary Voltage	
Series 16M	12 VAC, 1.5 mA
Series 16HM	12 VDC
Series 16DM & 16VM	12 VAC, 1.5 mA
Temperature	-40°F to 150°F (-40°C to 65°C)
Approvals	U.L. 508 File #E44426; CSA
Terminal Style	Screw connector
Options	Time Delays







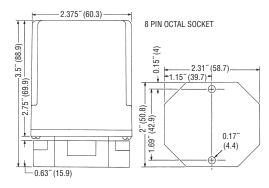
Series 16M/16HM

## **Applications**

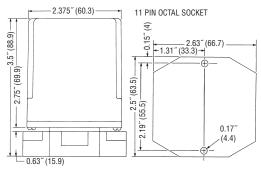
- Single-Level Service
- · Point Level
- · Valve Control
- Differential Service
- Alarms
- Pump Control

### **Dimensions**

#### Series 16M & 16HM



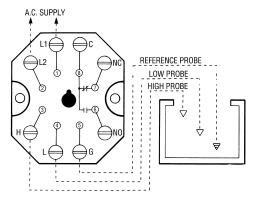
#### Series 16DM & 16VM



Note: Controls also available with DIN mount socket.

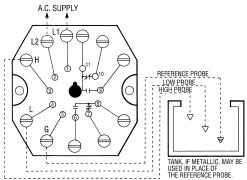
## Wiring

#### Series 16M & 16HM

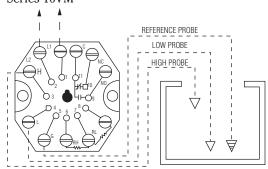


Note: For single level service, use "H" and "G" connections.

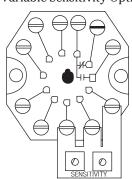








## Variable Sensitivity Option



Part number 16Z1VG Potentiometer Board available for 16VM only. Consult factory.

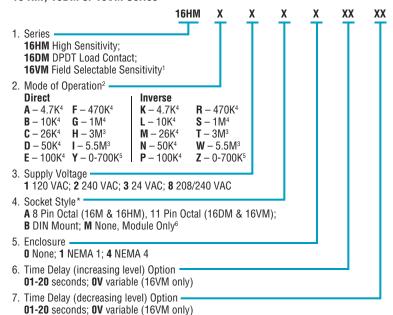
## How to Order

Use the **Bold** characters from the chart below to construct a product code.

#### 16M Series – Microprocessor Version XX XX 1. Series 16M General Purpose; 2. Mode of Operation Direct Inverse A - 4.7KE - 100KK - 4.7KP - 100K**B** – 10K F - 470K L - 10K R - 470KC - 26KG-1MM - 26KS-1MD - 50KN - 50K3. Supply Voltage 1 120 VAC; 2 240 VAC; 3 24 VAC; 8 208/240 VAC 4. Socket Style? A 8 Pin Octal M Module Only **B** 8 Pin DIN 5. Enclosure -0 None; 1 NEMA 1; 4 NEMA 4 6. Time Delay (increasing level) Option **00-90** seconds Blank 0 seconds 7. Time Delay (decreasing level) Option **00-90** seconds Blank 0 seconds 8. Dirty Probe/ Time Out Option See page D-36, Chart A

## 16 HM, 16DM or 16VM Series

\*See page D-37 for descriptions.



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## Notes:

- 1. 16VM select modes A, K, Y or Z only.
- 16HM & 16DM only. Series 16VM includes full set of the resistors listed above. Specify a sensitivity to determine mode of operation.
- 16HM only.
- All Series except 16HM.
- 5. 16DM only.
- 6. Socket style M requires enclosure 0 None.

Socket Details and Option Availability are located on page D-36 and D-37.