

An O'Keefe Controls Company

## **GENERAL PURPOSE PLUG-IN MODULES**

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

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

### Series 16M – General Purpose Control

• New Microprocessor Design

Designed for either differential or single-level service. U.L. "Motor Controller" listing, 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. 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. listed.

### Specifications

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
Terminal Style	Screw connector
Options	Time Delays





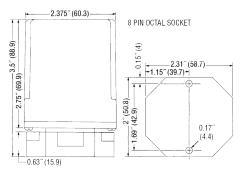
Series 16DM/16VM

### Applications

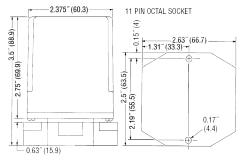
- · Single-Level Service
- · Point Level
- Valve Control
- · Differential Service
- Alarms
- · Pump Control

#### **Dimensions**

### Series 16M & 16HM



### Series 16DM & 16VM



Note: Controls also available with DIN mount socket.



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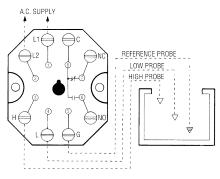
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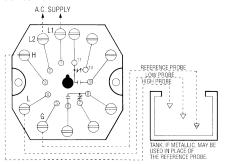
#### Wiring

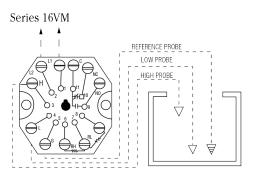
### Series 16M & 16HM



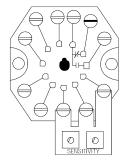
Note: For single level service, use "H" and "G" connections.

#### Series 16DM





### Variable Sensitivity Option



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

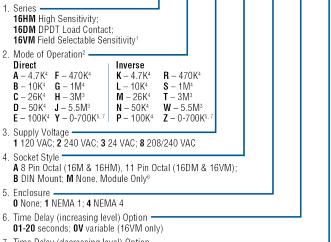
### How to Order

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

#### 16M Series - Microprocessor Version 16M ХΧ 1 Series 16M General Purpose; 2. Mode of Operation Direct Inverse A - 4.7K**E** – 100K P - 100KK - 4.7K**L** – 10K R - 470KF - 470K B - 10K $\mathbf{C} - 26 \, \mathrm{K}$ G-1MM - 26K**S** – 1M N - 50KD - 50K4. 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 Time Delay (decreasing level) Option 00-90 seconds Blank 0 seconds 8. Time Out Option -See page E-11, Chart A

## \*See page E-11 for descriptions.

### 16 HM, 16DM or 16VM Series



16HM

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7. Time Delay (decreasing level) Option — 01-20 seconds; **0V** variable (16VM only)

### Notes:

- 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.
- 16VM only.
- All Series except 16HM.
  16VM only.
- 5. 16V
- 6. Socket style M requires enclosure 0 None.
- '. Mounting style A (11 pin octal only)

Socket Details and Option Availability are located on web site.