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 11 pin octal socket. U.L., CSA 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; CSA

Terminal Style
Screw connector

Options
Time Delays

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.
How to Order

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

16M Series – Microprocessor Version

1. Series
   - **16M** general purpose;

2. Mode of Operation
   - Direct
     - A – 4.7K
     - B – 10K
     - C – 26K
     - D – 50K
   - Inverse
     - E – 100K
     - F – 470K
     - G – 1M
     - H – 3M
     - I – 5.5M
     - J – 26K
     - K – 10K
     - L – 10K
     - M – 26K
     - N – 10K
     - O – 50K
     - P – 50K
   - **Blank**

3. Supply Voltage
   - 1 120 VAC; 2 240 VAC; 3 24 VAC; 8 208/240 VAC

4. Socket Style*
   - A 8 Pin Octal
   - B 8 Pin DIN

5. Enclosure
   - None; 1 NEMA 1; 4 NEMA 4

6. Time Delay (increasing level) Option
   - **Blank** 0 seconds

7. Time Delay (decreasing level) Option
   - **Blank** 0 seconds

8. Dirty Probe/Time Out Option
   - See page D-36, Chart A

*See page D-37 for descriptions.

16 HM, 16DM or 16VM Series

1. Series
   - **16HM** High Sensitivity;
   - **16DM** DPDT Load Contact;
   - **16VM** Field Selectable Sensitivity

2. Mode of Operation
   - Direct
     - A – 4.7K
     - B – 10K
     - C – 26K
     - D – 50K
   - Inverse
     - E – 100K
     - F – 470K
     - G – 1M
     - H – 3M
     - I – 5.5M
     - J – 26K
     - K – 10K
     - L – 10K
     - M – 26K
     - N – 10K
     - O – 50K
     - P – 50K
   - **Blank**

3. Supply Voltage
   - 1 120 VAC; 2 240 VAC; 3 24 VAC; 8 208/240 VAC

4. Socket Style*
   - A 8 Pin Octal (16M & 16HM), 11 Pin Octal (16DM & 16VM);
   - B DIN Mount; M None, Module Only

5. Enclosure
   - None; 1 NEMA 1; 4 NEMA 4

6. Time Delay (increasing level) Option
   - **Blank** 0 seconds

7. Time Delay (decreasing level) Option
   - **Blank** 0 seconds

*See page D-37 for descriptions.

Notes:
- 1. 16VM select modes A, K, Y or Z only.
- 2. 16HM & 16DM only. Series 16VM includes full set of the resistors listed above.
- 3. Specify a sensitivity to determine mode of operation.
- 4. All Series except 16HM.
- 5. 16VM only.
- 6. Socket style M requires enclosure 0 – None.

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