

# MM1000

# DC INPUT SINGLE ALARM FIXED RANGE, DPDT RELAY

## **FEATURES**

- Provides a DPDT Relay Contact Closure at a Preset DC Input
- Standard Fail-Safe Operation
- Red and Green LED Alarm Status Indicators
- · Adjustable Deadband
- 50 mV or 1 mA Minimum Input Span
- Unlimited\* Choice of Input Ranges
- · Choice of Power Options
- 10 Year Warranty

## **DESCRIPTION**

The MM1000 monitors a DC input signal and trips a dpdt, 5 A relay when the input exceeds the desired level. Normal operation has the relay energized for the non-alarm condition and de-energized for an alarm condition. This provides a fail-safe alarm condition for loss of power to the module. Option R reverses this

mode of operation. The alarm has a set of red/green LEDs to indicate alarm status.

The MM1000 deadband adjustment allows a deadband of 0.5% to 100% of span to be set into the module. The deadband is symmetrical about the setpoint.

All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning.

#### **TYPICAL APPLICATIONS**

DC Motor/current limit, level/position control, HI/LO pressure alarm, power demand warning.

## **SPECIFICATIONS**

#### **INPUT RANGE**

Voltage select any range between ±250 V max (min span 50 mV)

Current

select any range between ±5 A max (min span 1 mA)

### **INPUT IMPEDANCE**

Voltage 200 kilohms

Current

 Current Input
 Input Shunt Value

 1 mA
 100 Ohm

 10 mA
 10 Ohm

 20 mA
 5 Ohm

 4/20 mA
 61.9 Ohm

 100 mA
 1 Ohm

 1 A
 0.1 Ohm

 5 A
 0.01 Ohm

#### **SETPOINT**

0 to 100% of span

#### **DEADBAND**

0.5% to 100% of span

#### **RELAY CONTACTS** (dpdt)

Resistive Load 5 A max, 150 W max, 220 VAC max, 30 VDC

Inductive Load (Power factor ≥ 0.4) 2.5 A max, 75 W max, 220 VAC max, 30 VDC max

## TRANSISTOR OUTPUT

Open-collector output sink 30mA, 30 V supply max

#### **RESPONSE TIME**

(Range Dependent) 20 ms typical

#### **ACCURACY**

±0.01% of span

### **COMMON MODE REJECTION**

120 dB, DC to 60 Hz

#### **OPERATING TEMPERATURE**

14°F to 140°F/-10°C to 60°C

#### **TEMPERATURE STABILITY**

 $\pm$ (0.02% of span + 30 uV)/°C max

#### **POWER**

115 VAC ±10%, 50/60 Hz (2.5 W max)

230 VAC ±10%, 50/60 Hz (2.5 W max)

(DC Power Option)

24 VDC (limits 21-32 VDC) 12 VDC (limits 10-16 VDC)

Isolation, DC power supply to input common: 10 kilohms

<sup>\*</sup> Within specified range limits.

**Enter Setpoint Input Level** 

**OPTIONS** 

**TAGS** 

charge.

Conformal Coating

**Specify Tag Numbers** 

**Enter Tag Number(s)** 

Setpoint 1

Tag number is typed on product label at no

# ORDERING INFORMATION

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115 VAC, 50/60 Hz Power

230 VAC, 50/60 Hz Power24 VDC, Power, Transformer Isolated

☐ 12 VDC, Power, Transformer Isolated

**INPUT** 

**Select Units** 

☐ VDC ☐ mADC

**Enter Input** 

Zero Scale

Full Scale

**ALARMS** 

**Alarm Selection - Output** 

Relay

☐ Transistor, O.C.

**Alarm Type** 

☐ High ☐ Low

Alarm Logic

□ Normal - De-Energize On Alarm

□ Reverse - Energize On Alarm

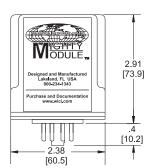
## **ACCESSORIES**

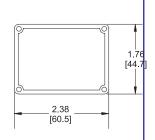
## **MM1000**

DR1	DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter)	Qty
MP011	Plastic Socket, 11-Pin, Panel Mount or PVC Snap Track	Qty
TRK48	PVC Snap-Track, 4 ft, for MP008, MP011, & DMP8500	Qty
DMP011	DIN-Rail Mounting Socket, 11-Pin, 35 mm Symmetrical Rail	Qty
CLP1	Holddown Assembly for MP008 and MP011	Qty
HKB-HK2D-11	Explosion-Proof Housing with MP011 Installed	Qtv

## **DIMENSIONS**

Inches [mm]





## **CONNECTIONS**

PIN 1	Power AC L1 or DC
PIN 2	No Connection
PIN 3	Power AC L2 or DC -
PIN 4	Input +
PIN 5	Input -
PIN 6	Relay Set 1 NO
PIN 7	Relay Set 1 C
PIN 8	Relay Set 1 NC
PIN 9	Relay Set 2 NO
PIN 10	Relay Set 2 C
PIN11	Relay Set 2 NC
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