DC INPUT ALARM TRIPS
ISOLATED, FIELD CONFIGURABLE

Input: 0-50 mV to ±10 Vdc,
0-1 mA to 4-20 mADC
Output: Two 8 Amp DPST Relays

SPECIFICATIONS
Input Ranges: 24 field selectable ranges via switch settings
- Voltage: 0-50 mV to 0-10 Vdc
- Bipolar Voltage: ±5 Vdc or ±10 Vdc
- Current: 0-1 mA to 0-20 mADC, 4-20 mADC

Input Impedance and Burden:
- Voltage: 250 kΩ minimum
- Current: 50 Ω typical
- Voltage Burden: 1 Vdc at 20 mA current input

Isolation:
- 1200V isolation: power to input 600 Vac or 600 Vdc common mode protection

Input Loop Power Supply:
- 15 Vdc ±10%, 25 mA maximum ripple, less than 10 mV rms may be wired for sinking or sourcing mA input

Relay Output: Single setpoint dual DPST contacts, field configurable;
- 2 Form A (NO) and Form B (NC) contact sets (8 terminals) may be wired for C Form operation

Relay Contact Ratings:
- 8 Amps @ 240 Vac resistive load
- 5 Amps @ 240 Vac inductive load
- 8 Amps @ 30 Vdc resistive load
- 3.5 Amps @ 30 Vdc inductive external contact protection such as a RC snubber is recommended for inductive loads

Set Point: 12 turn potentiometer adjustable from 0 to 100% of span

Deadband: 12 turn potentiometer adjustable from 1 to 100% of span

Response Time: 70 milliseconds typical

Functional Test/Reset Button:
- Toggles relay to opposite state when pressed; resets latching relay if, latching relay mode is selected

To Order

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMD1080</td>
<td>Standard power input, DC input alarm trip, isolated, field configurable</td>
</tr>
<tr>
<td>DMD1080-DC</td>
<td>Low power input, DC input alarm trip, isolated, field configurable</td>
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</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>MODEL NO.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>DRTB-RAIL-3575</td>
<td>DIN rail, 35 mm x 7.5 mm (1.4 x 0.30”) slotted, 2 m (6.6’) length</td>
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<tr>
<td>DRTB-RAIL-3515</td>
<td>DIN rail, 35 mm x 15 mm (1.4 x 0.60”) slotted, 2 m (6.6’) length</td>
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Ambient Temperature Range and Stability:
- -10 to 60°C (14 to 140°F) operating ambient; better than 1% of span over operating temperature range; better than 0.02% of span per °C
- Power: 60 to 265 Vac, 50/60 Hz or 85 to 300 Vdc, 2W maximum
- DC Versions: 9 to 30 Vdc or 10 to 32 Vac, 50/60 Hz, 2W maximum
- Housing: Mounts to standard 35 mm Din rail, IP40 rating
- Connectors: Four 4-terminal removable connectors 14 AWG maximum wire size
- Dimensions: 22.5 W x 117 H x 122 mm D (0.89 x 4.62 x 4.81”)

The DMD1080 accepts a DC voltage or current input and provides visual alarm indication and alarm relay contact outputs. 15 voltages and 9 current input ranges can be field configured via external rotary and slide switches. Offset ranges such as 1 to 5 Vdc and 4 to 20 mADC are also included. Heavy-duty relay contacts allow the module to directly control high capacity loads. Front accessible potentiometers are used to adjust the alarm setpoint from 0 to 100% and the deadband from 1 to 100%. The unit provides a single setpoint adjustment of the two DPST relay contacts. The alarm output can be field configured for HI or LO operation, latching or non-latching, and normal or reverse acting.

D-1