The MTL5041/5045 Galvanic Barrier provide total intrinsically safe isolation for communication with Dwyer® pressure transmitters approved for location in hazardous areas. Galvanic barrier eliminates the need for a high integrity earth ground required when using shunt diode type safety barriers. DIN rail mounting and plug-in signal and power connectors simplify installation and maintenance.

**Galvanic Barrier**

**MTL5041**
- FM for Class I, II, II: Div. 1 Groups A, B, C, D
- UL for Class I, II: Div. 1 Groups A, B, C, D
- Class II Div. 1 Groups E, F, G, Class III Div 1
- ISO, SBLTX, IS626, PLBTX

**MTL5045**
- FM for Class I, II, III: Groups A, B, C, D, E, F, G
- UL for Class I, II, III: Groups A, B, C, D, E, F, G
- Class II Div. 1 Groups A, B, C, D, E, F, G
- ISO, SBLTX, IS626, PLBTX

**Specifications**

**Hazardous Area Input:**
- Signal range: 0 to 24 mA (including over-range);
- Transmitter voltage: 16.5 V at 20 mA.

**Safe Area Output:**
- Signal range: 4 to 20 mA;
- Safe-area load resistance: 0 to 1 kΩ;
- Safe-area output resistance: >2 MΩ.

**Power Requirement:**
- 70 mA at 24 VDC;
- 85 mA at 20 VDC;
- 55 mA at 35 VDC.

**Maximum Power Dissipation (20 mA signal):** 1.2 W at 24 VDC.

**Isolation:** 250 Vrms between input, output and power supply terminals.

**Transfer Accuracy at 68°F (20°C):** Better than 20 µA (typically 5 µA).

**LED Indicator:**
- Green: Power indication.

**Temperature Limits:**
- Operating: -4 to 140°F (-20 to 60°C);
- Storage: -40 to 176°F (-40 to 80°C).

**Humidity:** 5 to 95% RH.

**Mounting:**
- 1.4˝ (35mm) top hat rail to:
  - EN50022-35x7.5;
  - BS5584;
  - 35x27x7.3 DIN46277.

**Terminals:** Accommodate up to 2.5 mm² stranded or single-core.

**Agency Approvals:** See table below.

**Table:**

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<th>Standard</th>
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