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.

Compatible Models: 637, 638, 608, 2700, 2800, 2900, SBLTX, PBLTX, IS626

**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 1kΩ;
- Safe-area output resistance: > 2 MΩ.

**Power Requirement:**
- 20 to 35 VDC.

**Response Time:**
- Settles to within 10% of final value within 250 µs.

**Current Consumption (20 mA signal):**
- 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 V rms 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).

**Temperature Drift:**
- <1 µA/°C.

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

**Mounting:**
- 1.4˝ (35 mm) top hat rail to EN 50022-35 x 7.5; BS 5584; 35 x 27 x 7.3 DIN 46277.

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

**Safety Description:**
- 28 V, 300Ω, 93 mA; Um=250 rms or dc.

**Weight:**
- 3.9 oz (110 g).

**Agency Approvals:** See table below.

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