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:**
- Better than 20 µA (typically 5 µA).

**LED INDICATOR:**
- **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.