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

<table>
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<tr>
<th>Galvanic Barrier</th>
<th>Approval</th>
<th>Dwyer Series</th>
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<tr>
<td>MTL5041</td>
<td>FM for Class I, II; Div. 1 Groups C, D</td>
<td>638</td>
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<tr>
<td>MTL5041</td>
<td>UL for Class I; Div. 1 Groups A, B, C, D</td>
<td>IS626, SBLTX, PBLTX</td>
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<tr>
<td>MTL5041</td>
<td>FM for Class I, II, III; Div. 1 Groups A, B, C, D, E, F</td>
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<td>608</td>
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<td>MTL5045</td>
<td>FM for Class I, II, III; Div. 1 Groups C, D, E, F</td>
<td>2900</td>
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<td>MTL5045</td>
<td>FM for Class I, II, III; Div. 1 Groups C, D, E, F</td>
<td>2700/2800</td>
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**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:
- 20 to 35 VDC.

Response Time: Sets 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.

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.

Agency Approvals: See table below.