The Series MTL7706/7787 Zener Barriers are an intrinsically safe shunt-diode barrier that can be used to communicate with and provide isolations for certain Dwyer transmitters approved for use in hazardous areas. These barriers limit the amount of energy allowed to pass into the hazardous area, which inhibit ignition in flammable atmospheres.

**FEATURES/BENEFITS**

- Approved for use in hazardous areas

**APPLICATIONS**

- Electrically isolates pressure and level transmitters from unregulated circuits for intrinsically safe applications

**SPECIFICATIONS**

- Transmitter Voltage: 16.2 V at 20 mA with 250 Ω load (negative w.r.t. earth); 11.0 V at 20 mA with 500 Ω load (negative w.r.t. earth).
- Safe Area Output: 4-20 mA.
- Load Resistance: 0 to 500 Ω.
- Power Requirement: 20-35 VDC w.r.t. earth.
- Accuracy: ±2 µA under all conditions.
- LED Indicator: Green: Power indication.
- Temperature Limits: Operating: -4°F to 140°F (-20°C to 60°C); Storage: -40°F to 176°F (-40°C to 80°C).
- Humidity: 5 to 95% RH.
- Terminals: Accommodate up to 2.5 mm² stranded or single-core.
- Safety Description: 28 µV, 300 Ω, 93 mA.
- Weight: 4.9 oz (140 g).
- Agency Approvals: See table.

**COMPATIBLE MODELS:** 637, 608, SBLTX, PBLTX, IS626

**MODELS CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>FM</th>
<th>BASEEEFA (ATEX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTL7706</td>
<td>A &amp; B</td>
<td>0.063 IIC 0.063 4.2</td>
</tr>
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<td>MTL7706</td>
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</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-360</td>
<td>Aluminum DIN rail 1 m</td>
</tr>
</tbody>
</table>

**Region (Authority) - Standard - Approved For - Certificate/File no.**

- **USA (FM) (UL):**
  - 3600, 3610 entity 3611, 3810, UL898, UL924, UL1604
  - A699(II,II); Class I, Div 2, Gp A, B, C, D; Ex nA IIC T4
  - 3010737

- **Canada (CSA):**
  - CAN/CSA E600670, IEC60079, C22.2
  - Class I, Div 2, Gps A, B, C, D; Ex nA IIC T4
  - 1345550

- **UK (BASEEFA):**
  - EN 50014, EN 50020, EN 50039
  - Ex ia IIIC
  - BAS01ATEX7217

- **UK (BASEEFA) Systems:**
  - Ex ia IIIC
  - Ex01E2219

**Agency Approvals:**

- UL for class I; div. 1 groups A, B, C, D
- CL II; div. 1 groups E, F, G
- FM for class I, II, III; div. 1 groups B, C, D, E, F, G
- IS626, SBLTX, PBLTX
- 637, 608