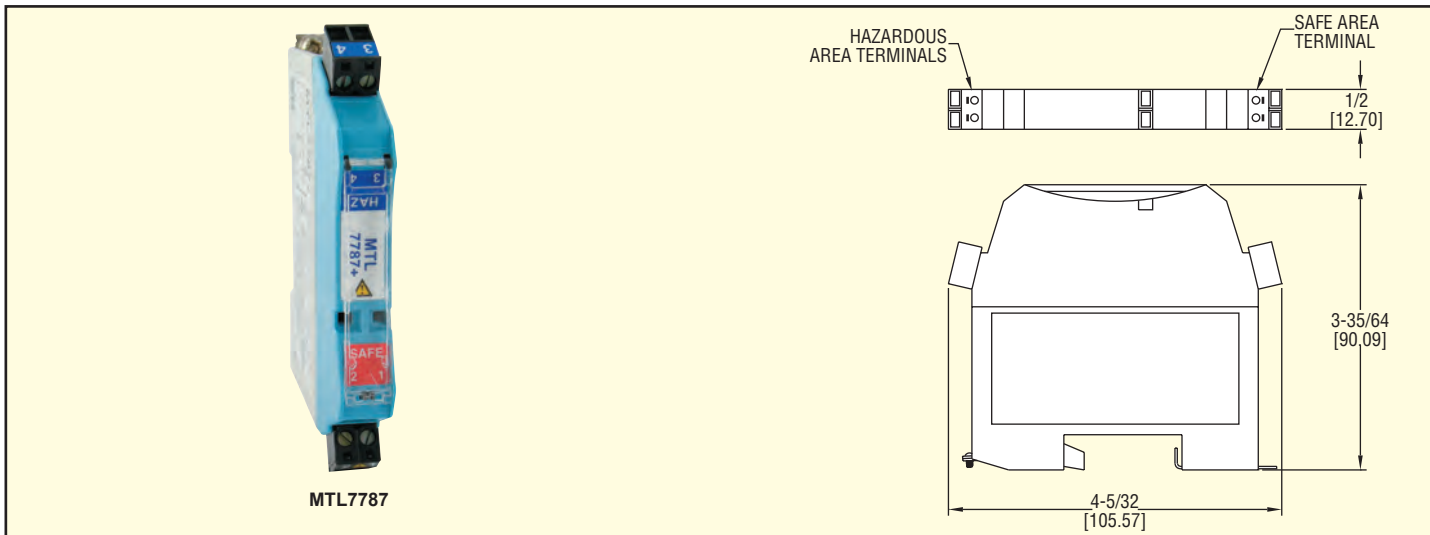




Series
MTL7706/
7787

Zener Barrier

Intrinsically Safe Barriers for Hazardous Locations



The **MTL7706/7787** is an intrinsically safe (IS) 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.

Compatible Models: 637, 608, SBLTX, PBLTX, IS626

MTL Zener Barrier	Approval	Dwyer Series
MTL7706	UL for Class I; Div. 1 Groups A, B, C, D CL II; Div. 1 Groups E, F, G; CL III Div. 1	IS626 SBLTX
MTL7706	FM for Class I, II, III; Div. 1 Groups B, C, D, E, F, G	PBLTX 637
MTL7706	FM for Class I, II, III; Div. 1 Groups A, B, C, D, E, F, G	608

MTL7706	FM	
	Group μ F	mH
A & B	0.083	4.2
BASEEFA (ATEX)		
Group μ F	mH	
IIC	0.083	4.2

MTL7787	FM	
	Group μ F	mH
A & B	0.083	3.05
BASEEFA (ATEX)		
Group μ F	mH	
IIC	0.083	3.05

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 to 20 mA.

Load Resistance: 0 to 500 Ω .

Power Requirement: 20 to 35 VDC w.r.t. earth.

Accuracy: ± 2 μ A under all conditions.

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.

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

Safety Description: 28 μ V, 300 Ω , 93 mA.

Weight: 4.9 oz (140 g).

Agency Approvals: See table below.

ACCESSORY

A-360, Aluminum DIN Rail 1 m

Region (Authority)	Standard	Approved For	Certificate/file no.
USA (FM) (UL)	3600, 3610 entity 3611, 3810 UL698 UL913 UL1604	AIS/I,II,III/1/Entity ABCDEFG- SCI-942; NI/I/@/ABCD/T4 [I/0] AEx[ia]IIC-SCI-942 Entity; NI/1/2/IIC/T4; Ta=140°F (60°C)	3010737
Canada (CSA)	CAN/CSA E60070, IEC60079, C22.2	Class I, Div.2, Gps A, B, C, D; Ex nA [ia] IIC T4 Class I, Xone 2, Aex nA IIC T4	1345550
UK (BASEEFA)	EN 50014, EN 50020	EEx ia IIC	BAS01ATEX7217
UK (BASEEFA) Systems	EN 50039	EEx ia IIC	Ex01E2219