

BARRIER

MTL7787+

- LIMITS / VOLTAGE CURRENT INTO HAZARDOUS AREA IN THE EVENT OF A FAULT IN THE SAFE AREA
- 2 STAGES OF VOLTAGE LIMITATION
- IS APPROVED
- 12.5mm WIDE

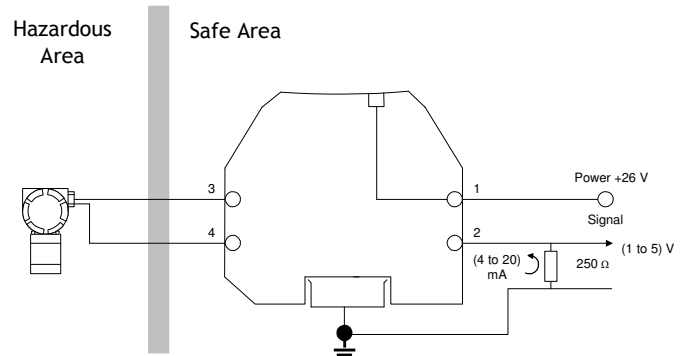


INTRODUCTION

The 7787+ barrier contains two stages of pulse-tested Zener or forward-connected diodes and an ‘infallible’ terminating resistor. In the event of an electrical fault in the safe area, the diodes limit the voltage that can reach the hazardous area and the resistor limits the current. A fuse protects the diodes, and the two stages of voltage limitation ensure continued safety if either stage should fail. No active output-current limiting circuits are employed. The MTL7787+ is certified ‘ia’ for all zones and ‘IIC’ for all explosive atmospheres.

APPLICATION

The recommended barrier for use with ‘conventional’ and ‘smart’ (4 to 20) mA transmitters (fed by a 26 V regulated supply) is the MTL7787+. This provides up to 12.9 V at V_{wk} and 20 mA for a transmitter and its lines as well as 5 V for the typical 250Ω load.



Model	Safety description			Polarities available			Application	Basic circuit		Max. end-to-end resistance R	V _{wk} at 10 μA or (1 μA)	V Max	Fuse Rating
	V	W	mA	+	-	ac		Hazardous	Safe				
MTL 7787+/-	28 28	300 diode	93 -	✓	✓		Transmitters Controller outputs, switches		333 0.9V +21Ω	26.6 26.6	27.2 27.2	50 50	

Please refer to the following link for a full specification / handbooks and the Installation requirements (INM7700)

http://www.mtl-inst.com/product/mtl7700_series_barriers/

ORDER CODE : MTL7787+

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D2542-01-01 MTL7787+_- Data Sheet

