

# BARRIER

## MTL7787+

- IS BARRIER
- LIMITS VOLTAGE TO HAZARDOUS AREA
- IS APPROVED LIMITS CURRENT TO HAZARDOUS AREA
- COMPETITIVE COST

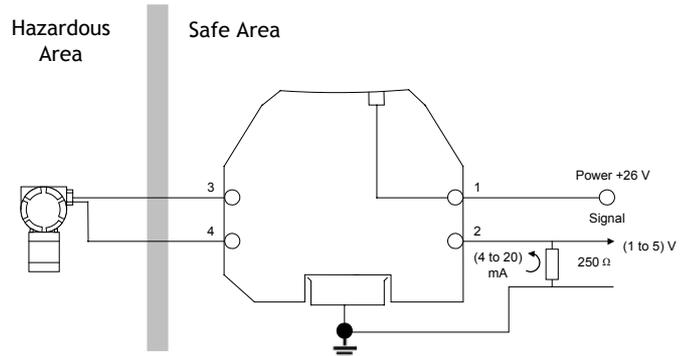


### INTRODUCTION

All MTL7700 Series barriers are based on the same simple principle. Each channel 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 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 Vwkg 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	Vwkg at 10 (1) μA	V Max	Fuse Rating
	V	Ω	mA	+	-	ac		Hazardous	Safe				
MTL 7787+	28	300	93	✓	✓	x	Transmitters Controller output, switches			333	26.6	27.2	50
	28	diode	—							0.9V+26 Ω	26.6	27.2	50

ORDER CODE : MTL7787+