

# MTL4787+

## FOR TWO MULTI-PURPOSE INPUTS/OUTPUTS

4/20mA transmitters, switches, CE  
 4/20mA outputs, solenoids, alarms, LEDs etc

The MTL4787+ is a twin 2-channel barrier designed for controller outputs, 4/20mA transmitters (including 'smart' versions), switches, solenoid valves, alarms, LEDs, etc., where the control/sense is on the return side (i.e. not the power leg). As each loop generally uses two barrier channels, the module will drive two hazardous-area devices. The MTL4787+ is designed to pick up bussed power if this is available. The unit incorporates a 'Schottky' diode return (as opposed to the MTL4728+ module which uses an earth return). Although the MTL4787+ is not designated 'S' (for 'Schottky') it is a direct equivalent of two MTL787S barriers (which also include Schottky diodes in the return legs). For a 'higher power' version, see the MTL4787P+ module.

### SPECIFICATION

(See also common specification)

<b>Channel numbers</b> 1 and 3	<b>Channel numbers</b> 2 and 4
<b>Safety description</b> 28V, 300Ω, 93mA	<b>Safety description</b> 28V, diode
<b>Polarity</b> Positive	<b>Polarity</b> Positive
<b>Max. end-to-end resistance</b> 330Ω	<b>Max. end-to-end resistance</b> 0.9V+22Ω
<b>V<sub>wkg</sub> at 10μA</b> 26.3V	<b>V<sub>wkg</sub> at 1μA</b> 26.3V
<b>V<sub>max</sub></b> 27.0V	<b>V<sub>max</sub></b> 27.0V
<b>Fuse rating</b> 50mA	<b>Fuse rating</b> 50mA
<b>Matched power</b> 0.65W	<b>Matched power</b> -

### MAXIMUM CABLE PARAMETERS

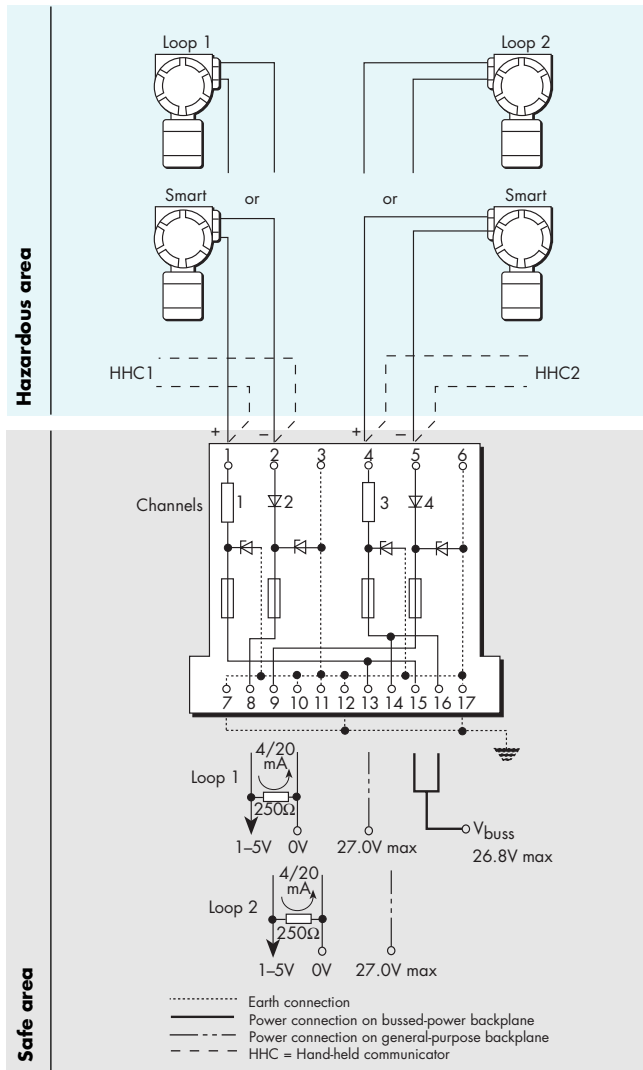
(for channel pairs 1 & 2 or 3 & 4)

	BASEEFA (group IIC)			FM (groups A & B)	
	Capacitance (μF)	Inductance (mH) or L/R ratio (μH/Ω)		Capacitance (μF)	Inductance (mH)
1	0.13	4.2	55	-	-
2	-	-	-	0.12	2.31

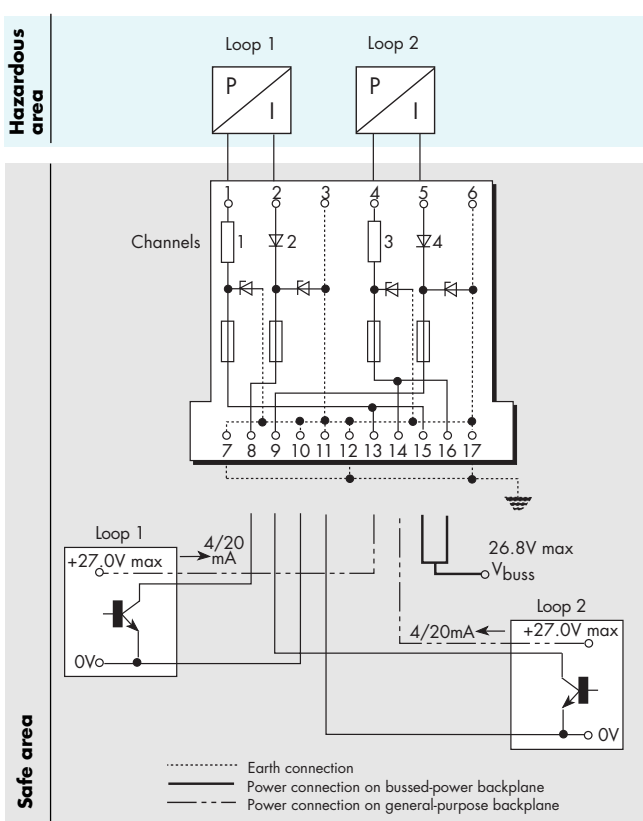
1: Without earth return

2: With earth return (FM includes an earth return in its calculations)

### ANALOGUE INPUTS (HIGH-LEVEL)



### ANALOGUE OUTPUTS



See also approvals, dimensions and ordering information

For additional application diagrams, see also MTL4787P+