

MTL4787P+

HIGHER POWER, FOR TWO MULTI-PURPOSE INPUTS/OUTPUTS

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

The MTL4787P+ is a twin 2-channel barrier designed for controller outputs, 4/20mA transmitters (including 'smart' versions) and switches. It is similar to the MTL4787+ but with a lower end-to-end resistance to permit more power to be transmitted into the hazardous area. As each loop generally uses two barrier channels, the module will drive two hazardous-area devices. The MTL4787P+ 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). See also the MTL4787+ module.

SPECIFICATION

(See also common specification)

Channel numbers 1 and 3	Channel numbers 2 and 4
Safety description 28V, 234 Ω , 120mA	Safety description 28V, diode
Polarity Positive	Polarity Positive
Max. end-to-end resistance 251 Ω	Max. end-to-end resistance 0.9V+20 Ω
V_{wkg} at 10μA 25.3V	V_{wkg} at 1μA 23.0V
V_{max} 27.0V	V_{max} 24.7V
Fuse rating 80mA	Fuse rating 80mA
Matched power 0.84W	Matched power -

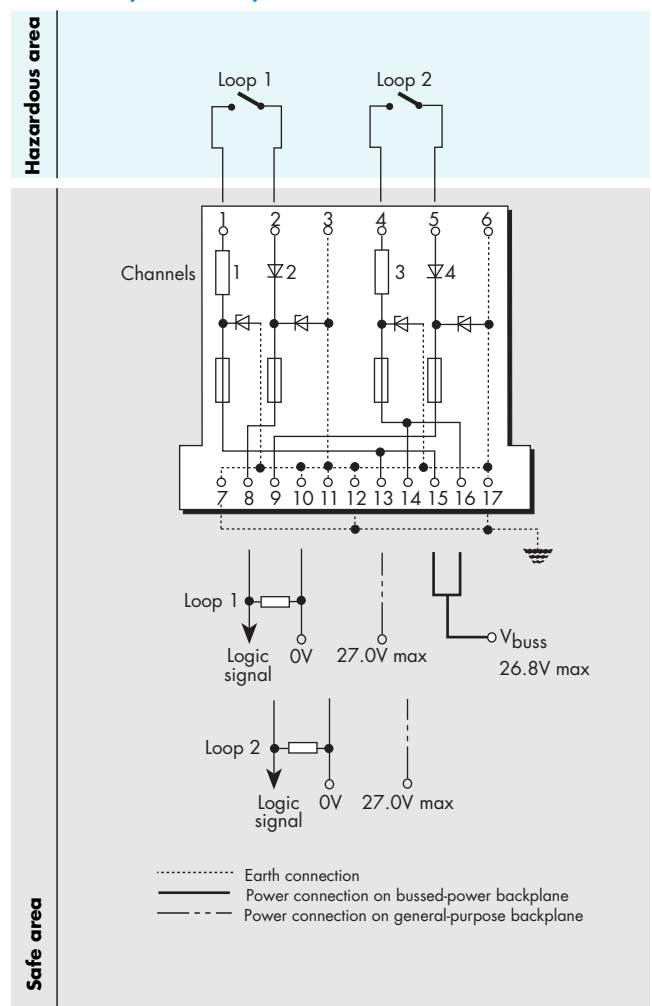
MAXIMUM CABLE PARAMETERS

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

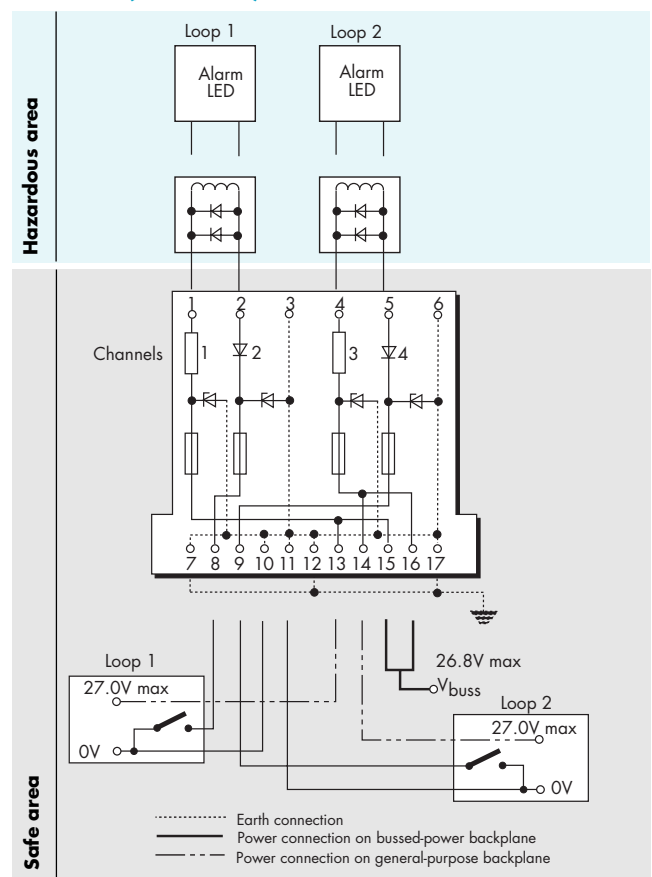
	BASEEFA (group IIC)			FM (groups A & B)	
	Capacitance (μ F)	Inductance (mH) or L/R ratio (μ H/ Ω)		Capacitance (μ F)	Inductance (mH)
1	0.13	2.5	42	-	-
2	-	-	-	0.12	2.31

1: Without earth return
2: With earth return (FM includes an earth return in its calculations)

DIGITAL (ON/OFF) INPUTS



DIGITAL (ON/OFF) OUTPUTS



See also approvals, dimensions and ordering information

For additional application diagrams, see also MTL4787+