

MTL5521 SOLENOID/ ALARM DRIVER

loop-powered, IIC

The MTL5521 is a loop-powered module which enables a device located in the hazardous area to be controlled from the safe area. The MTL5521 can drive a certified intrinsically safe low-power load, as well as non-energy-storing simple apparatus such as an LED.

SPECIFICATION

See also common specification

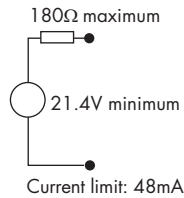
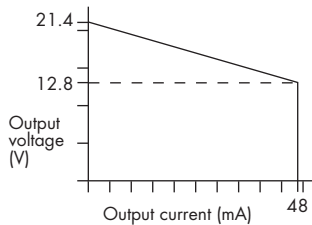
Number of channels

One

Location of load

Zone 0, IIC, T4--6 hazardous area if suitably certified
Div. 1, Group A hazardous location

Minimum output voltage Equivalent output circuit



Input voltage

20 to 35V dc

Hazardous-area output

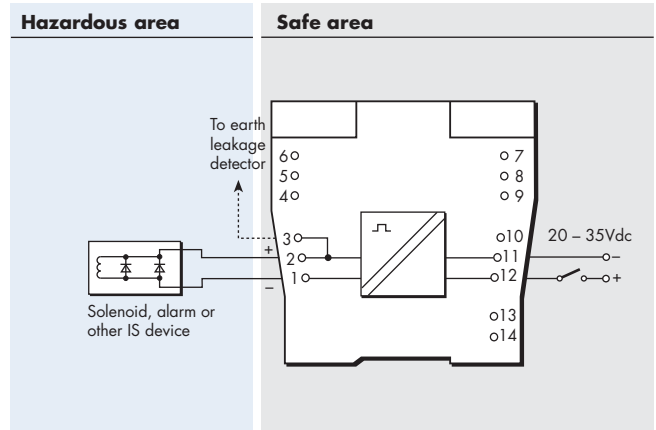
Minimum output voltage: 12.8V at 48mA
Maximum output voltage: 24V from 180Ω
Current limit: 48mA

Output ripple

< 0.5% of maximum output, peak to peak

Response time

Output within 10% of final value within 100ms



Terminal	Function
1	Output -ve
2	Output +ve
3	To earth leakage detector
11	Supply -ve
12	Supply +ve

LED indicator

Yellow: output status, on when output circuit is active

Maximum current consumption

90mA at 24V

Power dissipation within unit

1.4W at 24V

Safety description

$V_o=25V$ $I_o=147mA$ $P_o=919mW$ $U_m = 253V$ rms or dc

