

# MTL4521 SOLENOID/ ALARM DRIVER

loop-powered, IIC

The MTL4521 is a loop-powered module which enables a device located in the hazardous area to be controlled from the safe area. The MTL4521 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

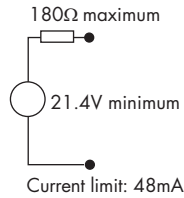
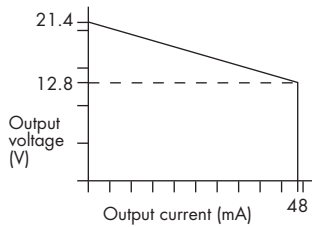
### Number of channels

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

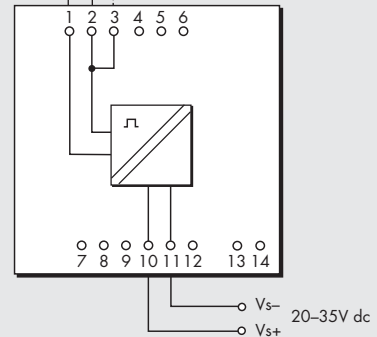
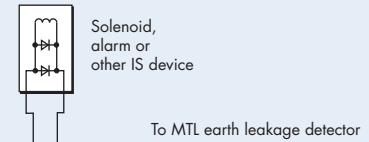
### Output ripple

< 0.5% of maximum output, peak to peak

### Response time

Output within 10% of final value within 100ms

### Hazardous area



### Safe area

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