

MTL5022 SOLENOID/ ALARM DRIVER

loop-powered, IIB



The MTL5022 enables a device located in the hazardous area to be controlled by a switch or voltage change in the safe area. The MTL5022 can drive any certified intrinsically safe low-power load, as well as non-energy-storing simple apparatus such as an LED. The unit's input/output isolation allows the control switch to be connected into either side of the 24V dc supply circuit.

SPECIFICATION

See also common specification

Number of channels

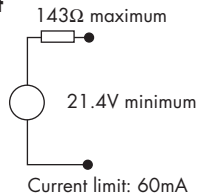
One

Location of load

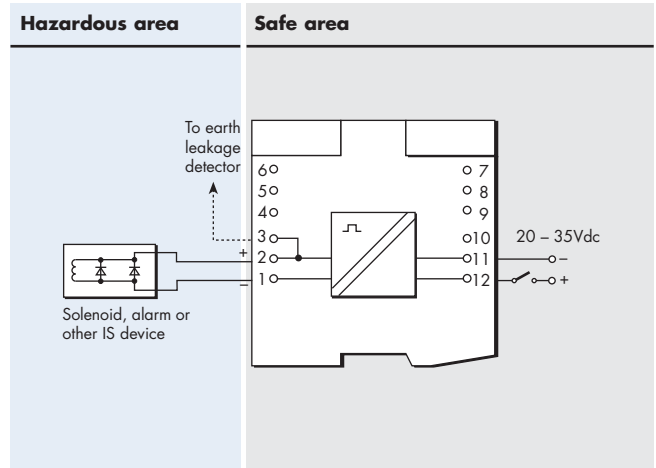
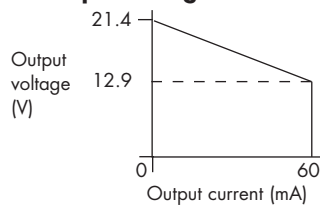
Zone 0, IIB, T4-6 hazardous area if suitably certified

Div. 1, Group C hazardous location

Equivalent circuit



Minimum output voltage



Terminal	Function
1	Output -ve
2	Output +ve
3	Earth leakage detection
11	Supply -ve
12	Supply +ve

LED indicator

Yellow: status

Input voltage

20 to 35V dc

Hazardous-area output

Minimum output voltage: 12.9V at 60mA

Maximum output voltage: 24V from 133Ω

Current limit: 60mA

Maximum current consumption (with 60mA output)

115mA at 24V, typical

135mA at 20 to 35V dc, maximum

Maximum power dissipation within unit

1.5W at 24V

2.1W at 35V

Safety description

25V, 135Ω, 185mA, $U_m = 250V$ rms or dc



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