

MTL5021 SOLENOID/ ALARM DRIVER

loop-powered, IIC



The MTL5021 enables a device located in the hazardous area to be controlled by a switch in the safe area. The MTL5021 can drive a 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

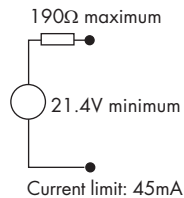
One

Location of load

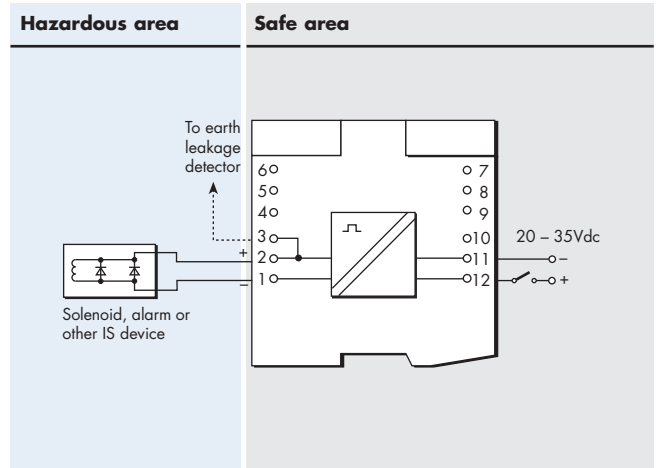
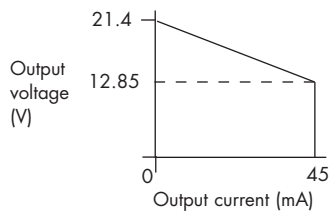
Zone 0, IIC, T4--6 hazardous area if suitably certified

Div. 1, Group A 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: 12.85V at 45mA

Maximum output voltage: 24V from 170Ω

Current limit: 45mA

Maximum current consumption (with 45mA output)

90mA at 24V

110mA at 20 to 35V dc

Maximum power dissipation within unit

1.4W at 24V typical

1.8W at 35V maximum

Safety description

25V, 170Ω, 147mA, $U_m = 250V$ rms or dc



EUROPE (EMEA)

AMERICAS

ASIA PACIFIC

E-mail: enquiry@mtl-inst.com

Tel: +44 (0)1582 723633

Tel: +1 281 571 8065

Tel: +65 6 487 7887

Web site: www.mtl-inst.com

Fax: +44 (0)1582 422283

Fax: +1 281 571 8069

Fax: +65 6 487 7997