

MTL4521/L – MTL5521

SOLENOID/ ALARM DRIVER

loop-powered, IIC

The MTLx521 and the MTL4521L are loop-powered modules which enable a device located in the hazardous area to be controlled from the safe area. They can all 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



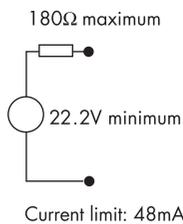
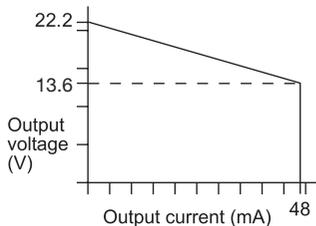
Number of channels

One

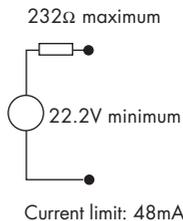
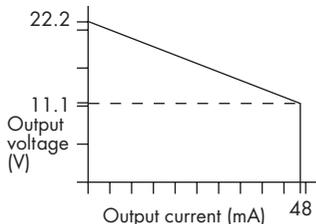
Location of load

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

Minimum output voltage Equivalent output circuit (MTLx521)



Minimum output voltage Equivalent output circuit (MTL4521L)



Input voltage

20 to 35V dc

Hazardous-area output (MTLx521)

Minimum output voltage: 13.6V at 48mA
Maximum output voltage: 24V from 180Ω
Current limit: 48mA

Hazardous-area output (MTL4521L)

Minimum output voltage: 11.1V at 48mA
Maximum output voltage: 24V from 232Ω
Current limit: 48mA

Output ripple

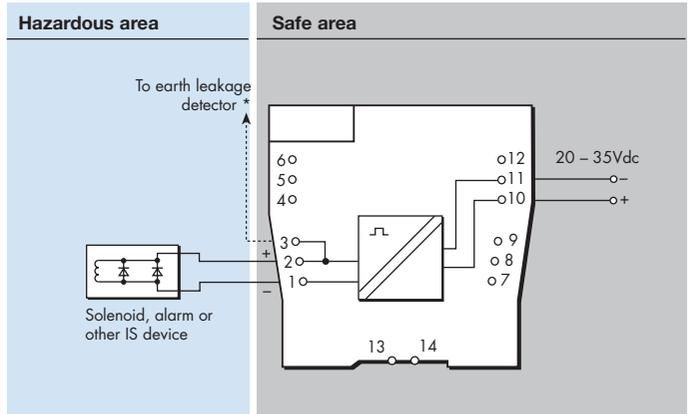
< 0.5% of maximum output, peak to peak

Response time

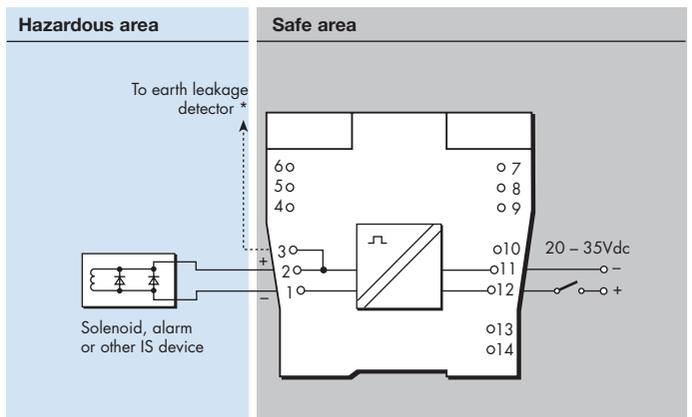
Output within 10% of final value within 100ms

* Signal plug HAZ1-3 is required for access to this function

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LED indicator

Yellow: output status, on when output active

Maximum current consumption

90mA at 24V

Power dissipation within unit

1.4W at 24V

Safety description (MTLx521)

$U_o=25V$ $I_o=147mA$ $P_o=0.92W$ $U_m=253V$ rms or dc

Safety description (MTL4521L)

$U_o=25V$ $I_o=108mA$ $P_o=0.68W$ $U_m=253V$ rms or dc



SIL capable

These models have been assessed for use in IEC 61508 functional safety applications. See data on MTL web site and refer to the safety manual.

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