

MTL5521-T

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. That 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

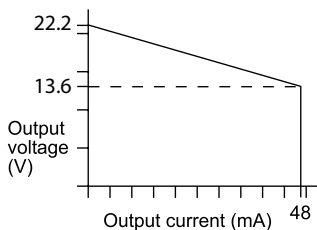
Number of channels

One

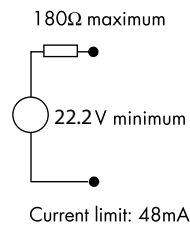
Location of load

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

Minimum output voltage (MTL5521)



Equivalent output circuit



Input voltage

20 to 35V dc

Hazardous-area output

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

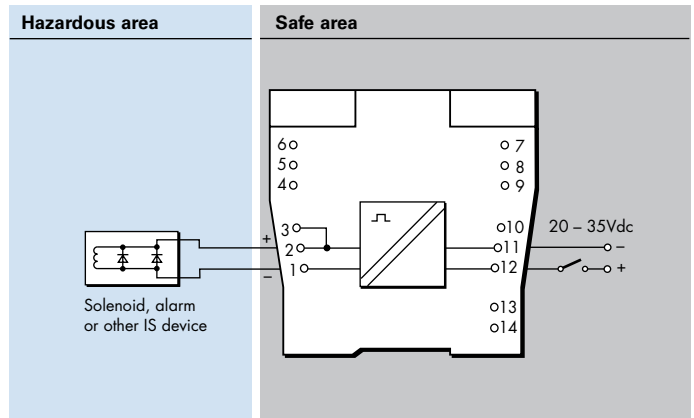
Output ripple

< 0.5% of maximum output, peak to peak

Response time

Output within 10% of final value within 100ms

MTL5521



LED indicator

Yellow: output status, on when output active

Maximum current consumption

90mA at 24V

Power dissipation within unit

1.4W at 24V

Operating temperature range

-20°C to +65°C (-6 to +149°F)

Safety description (MTLx521)

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



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In the interest of further technical developments, we reserve the right to make design changes.