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.

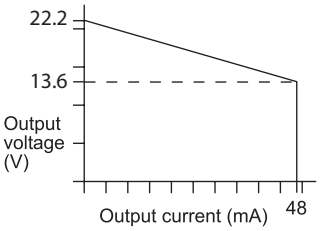
SPECIFICATION

See also common specification

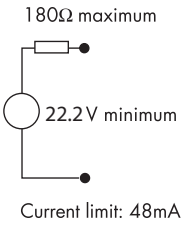
Number of channels
One

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

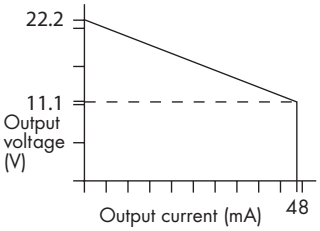
Minimum output voltage (MTLx521)



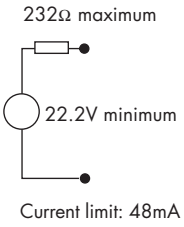
Equivalent output circuit



Minimum output voltage (MTL4521L)



Equivalent output circuit



Input voltage
20 to 35V dc

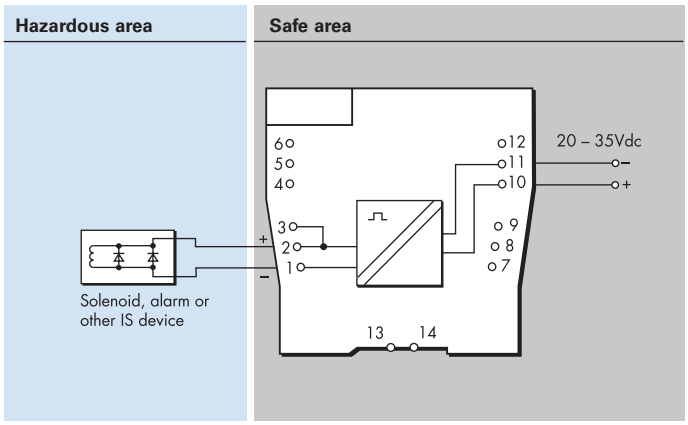
Hazardous-area output (MTLx521)
Minimum output voltage: 13.6V at 48mA
Maximum output voltage: 24V from 180Ω
Current limit: 48mA minimum

Hazardous-area output (MTL4521L)
Minimum output voltage: 11.1V at 48mA
Maximum output voltage: 24V from 232Ω
Current limit: 48mA minimum

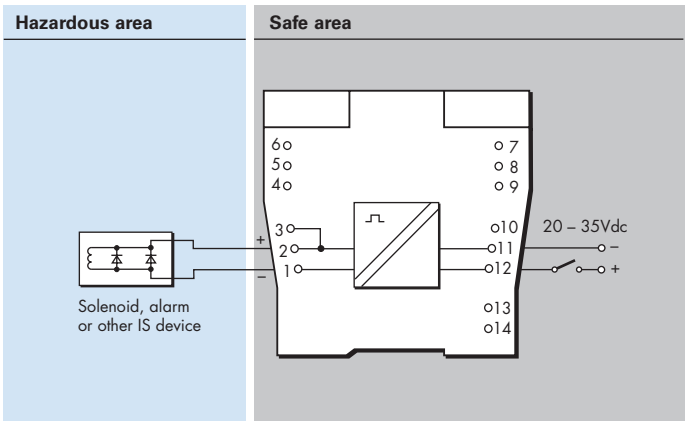
Output ripple
< 0.5% of maximum output, peak to peak

Response time
Output within 10% of final value within 100ms

MTL4521 / MTL4521L



MTL5521



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.
SIL3 capable for a single device (HFT=0) when the required function is to de-energise the output.
SIL1 capable for a single device (HFT=0) when the required function is to energise the output.
See data on MTL web site and refer to the safety manual.

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee.
In the interest of further technical developments, we reserve the right to make design changes.

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