

A.S.P. Electro-Technology Ltd

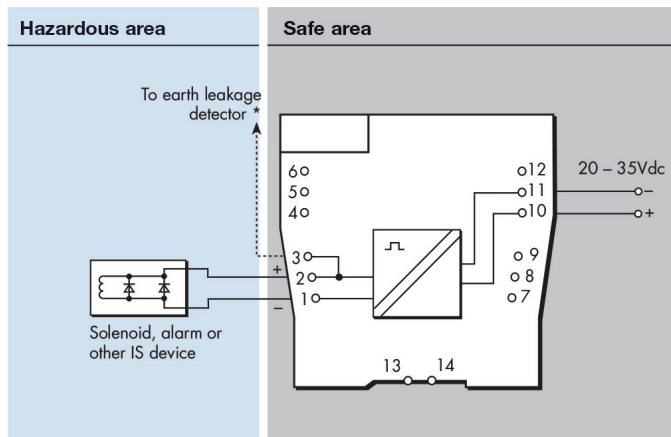
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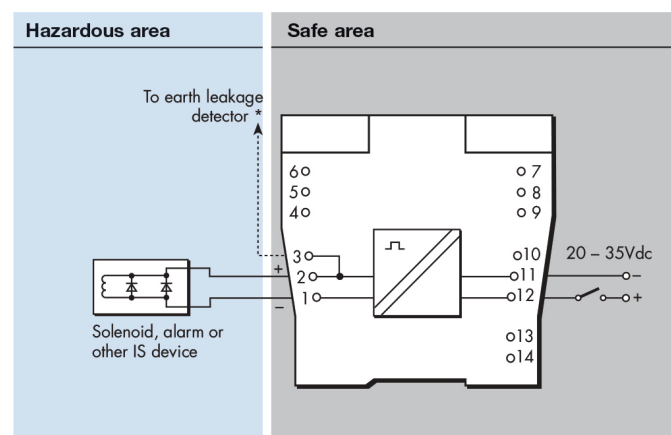
MTL4521/L – MTL5521 SOLENOID/ ALARM DRIVER loop-powered, IIC

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.

MTL4521 / MTL4521L



MTL5521



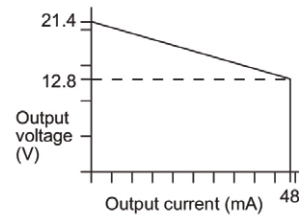
* Signal plug HAZ1-3 is required for access to this function

SPECIFICATION

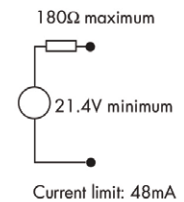
See also common specification

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

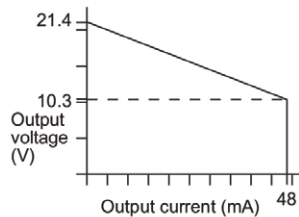
Minimum output voltage
(MTLx521)



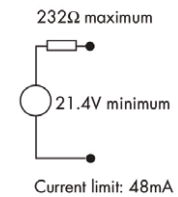
Equivalent output circuit



Minimum output voltage
(MTL4521L)



Equivalent output circuit



Input voltage	20 to 35V dc
Hazardous-area output (MTLx521)	Minimum output voltage: 12.8V at 48mA Maximum output voltage: 24V from 180Ω Current limit: 48mA
Hazardous-area output (MTL4521L)	Minimum output voltage: 10.3V 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
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
SIL capable	These models have been assessed for use in IEC 61508 functional safety applications. See data on MTL web site.