

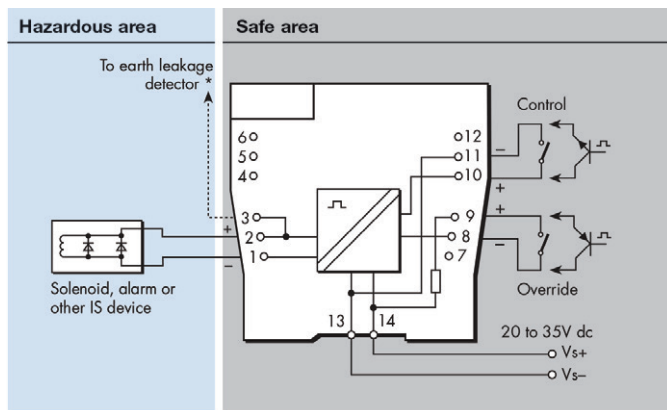
## MTL4525 – MTL5525 SOLENOID/ALARM DRIVER

switch operated with override, IIC, low power

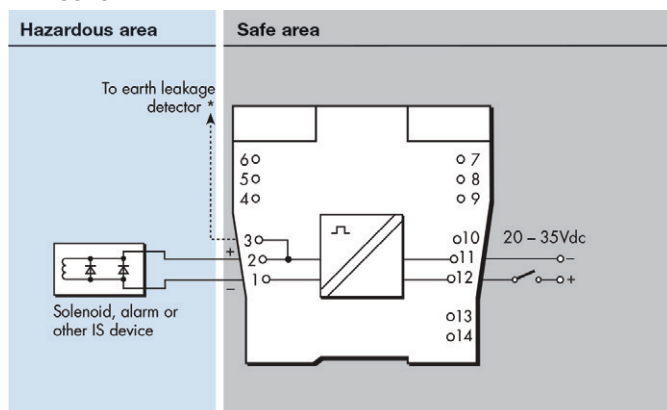
The MTLx525 enables an on/off device in a hazardous area to be controlled by a volt-free contact or logic signal in the safe area. It can drive loads such as solenoids, alarms, LEDs and other low power devices that are certified as intrinsically safe or are classified as nonenergy storing simple apparatus.

The MTL4525 allows a second safe-area switch or logic signal to be connected that enables the output to be disabled to permit, for example, a safety system to override a control signal.

### MTL4525



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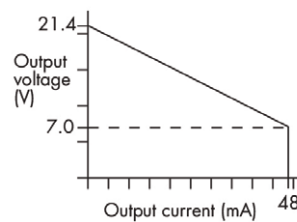
\* Signal plug HAZ1-3 is required for access to this function

## SPECIFICATION

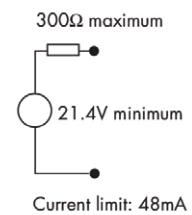
See also common specification

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



Equivalent output circuit



Hazardous-area output	Minimum output voltage: 7V at 48mA Maximum output voltage: 24V from 300Ω Current limit: 48mA		
Output ripple	< 0.5% of maximum output, peak-to-peak		
Control input on MTL4525	Suitable for switch contacts, an open collector transistor or logic drive 0 = input switch closed, transistor on or < 1.4V applied 1 = input switch open, transistor off or > 4.5V applied		
Override input on MTL4525	An open collector transistor or a switch connected across the terminals can be used to turn the output off whatever the state of the control input 0 = transistor on or switch closed 1 = transistor off or switch open		
Control and override inputs on MTL4525	Control input	Override input	Output state
	0	0	off
	0	1	on
	1	0	off
1	1	off	
Response time	Output within 10% of final value within 100ms		
LED indicators	Green: power indication Yellow: output status, on when output active		
Maximum current consumption	100mA at 24V dc		
Power dissipation within unit	1.3W with typical solenoid valve, output on 1.9W worst case		
Safety description	U <sub>o</sub> = 25V I <sub>o</sub> = 83.3mA P <sub>o</sub> = 0.52W U <sub>m</sub> = 253V rms or dc		