MTL4524 - MTL5524 **SOLENOID/ALARM DRIVER**

switch operated with override, IIC

The MTLx524 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 MTL4524 allows a second safe-area switch or logic signal to be connected enabling the output to be disabled to permit, for example, a safety system to override a control signal.

The MTL5524 has its phase reversed by connecting a wire link between pins 8 and 9.

SPECIFICATION

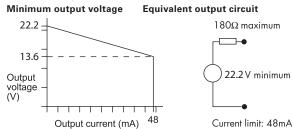
See also common specification

Number of channels

One

Location of load

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



Hazardous-area output

13.6V at 48mA Minimum output voltage: Maximum output voltage: 24V from 180Ω Maximum off-state output voltage: 4V from 180Ω 48mA minimum Current limit:

Output ripple

< 0.5% of maximum output, peak-to-peak

Control input

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 MTL4524

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

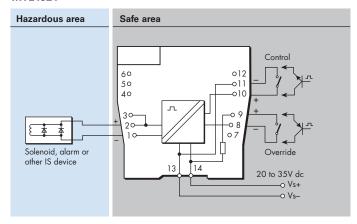
Control and override inputs on MTL4524

Control input	Override input	Output state
0	0	off
0	1	on
1	0	off
1	1	off

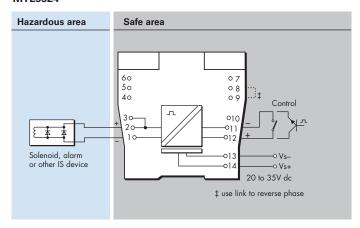
Response time

Output within 10% of final value within 100ms

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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

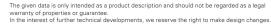
 $U_0 = 25V$ $I_0 = 147mA$ $P_0 = 0.92W$ $U_m = 253V$ rms or dc



SIL capable









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