# 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

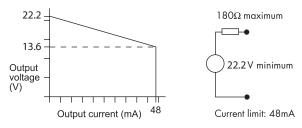
#### Number of channels

One

#### Location of load

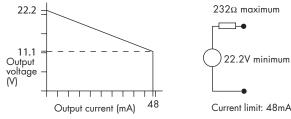
Zone 0, IIC, T4–6 hazardous area if suitably certified Div. 1, Group A hazardous location

# Minimum output voltage Equivalent output circuit (MTLx521)



# Minimum output voltage (MTL4521L)

# Equivalent output circuit



## Input voltage

20 to 35V dc

# Hazardous-area output (MTLx521)

Minimum output voltage:13.6V at 48mAMaximum output voltage:24V from 180ΩCurrent limit:48mA minimum

# Hazardous-area output (MTL4521L)

Minimum output voltage: 11.1V at 48mA
Maximum output voltage: 24V from 232Ω
Current limit: 48mA minimum

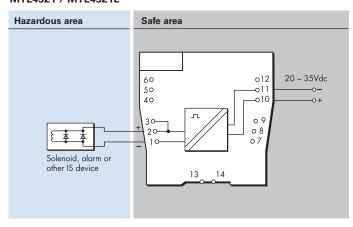
# **Output ripple**

< 0.5% of maximum output, peak to peak

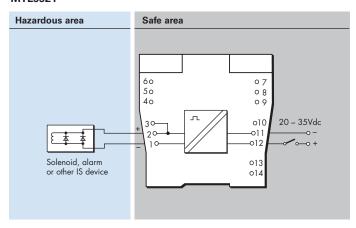
## Response time

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)

 $U_o = 25V$   $I_o = 147 \text{mA}$   $P_o = 0.92 \text{W}$   $U_m = 253 \text{V}$  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 change



+44 (0)1582 723633 mtlenquiry@eaton.com THE AMERICAS:

+1 800 835 7075 mtl-us-info@eaton.com ASIA-PACIFIC: +65 6 645 9888 sales.mtlsing@eaton.com

