

# MTL5522

## SOLENOID/ALARM DRIVER

loop-powered, IIB

The MTL5522 is a loop-powered module which enables a device located in the hazardous area to be controlled from the safe area. The MTL5522 can drive a certified intrinsically safe low-power load, as well as non-energy-storing simple apparatus such as an LED. The unit's input/output isolation allows the control switch to be connected into either side of the 24V dc supply circuit.

### SPECIFICATION

See also common specification

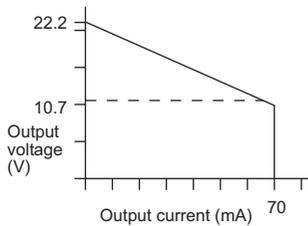
#### Number of channels

One

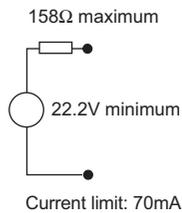
#### Location of load

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

#### Minimum output voltage



#### Equivalent output circuit



#### Input voltage

20 to 35V dc

#### Hazardous-area output

Minimum output voltage: 10.7V at 70mA  
Maximum output voltage: 24V from 158Ω  
Current limit: 70mA

#### Output ripple

< 0.5% of maximum output, peak to peak

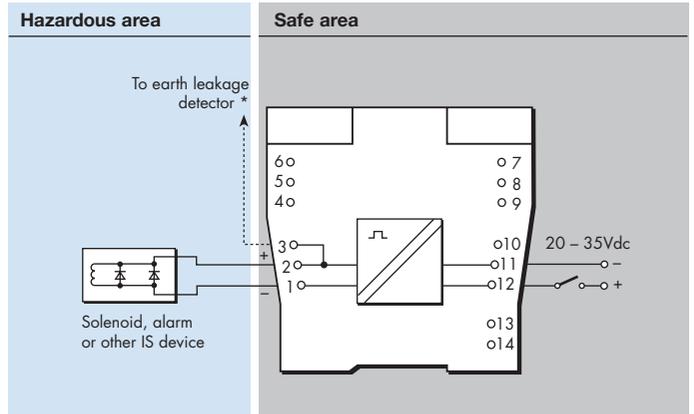
#### Response time

Output within 10% of final value within 100ms

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



### MTL5522



#### LED indicator

Yellow: output status, on when output active

#### Maximum current consumption

125mA (typ.) at 24V

#### Power dissipation within unit

1.4W at 24V

#### Safety description

$U_o=25V$   $I_o=166mA$   $P_o=1.04W$   $U_m = 253V$  rms or dc



#### SIL capable

These models have been assessed for use in IEC 61508 functional safety applications. See data on MTL web site and refer to the safety manual.

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