MTL2242 SOLENOID/ ALARM DRIVER

4-channel

The MTL2242 unit is a 4-channel version of the MTL2241 which enables up to four hazardous-area devices to be controlled independently by safe-area volt-free contacts or logic signals. The four output circuits are interconnected and can be paralleled, if required, to provide more power. Refer to the MTL2241 for details of applications, etc.

SPECIFICATION

See also 'Common specification'

Number of channels

Four, interconnected, fully floating

Location of loads

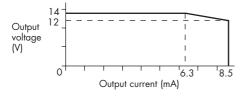
Zone O, IIC, T4–T6 hazardous area if suitably certified Div 1, Group A, hazardous area

Input/output characteristic (each channel)

Turns on if ${<}27k\Omega^{*}$ or ${<}1V$ applied Turns off if ${>}54k\Omega^{*}$ or ${>}2V$ applied

Hysteresis, $13k\Omega^*$ or 0.5V, nominal

*Divide by 4 if all inputs paralleled Minimum output voltage (each channel)



Maximum output voltage

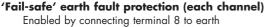
17.5V constant, current limited at 12mA

Power supply failure protection

Load(s) de-energised if supply fails

Broken line protection

Load(s) de-energised if any combination of leads goes open circuit



'No-fail' earth fault protection (each channel)

Enabled by connecting terminal 8 to MTL2220 Fault on any line proclaimed: unit continues working

Response time <10ms

LED indicator (each channel)

ON when associated hazardous-area load energised

Consumption

2.4 to 3.6W (ac versions)

160mA (24V dc version)

Ambient temperature limits

-20 to +40°C (ac versions, close packed)

- -20 to +30°C (dc version at 26V, close packed)
- -20 to $+55^{\circ}C$ (ac versions, at least 5mm apart)
- -20 to +50°C (dc version at 26V, at least 5mm apart)

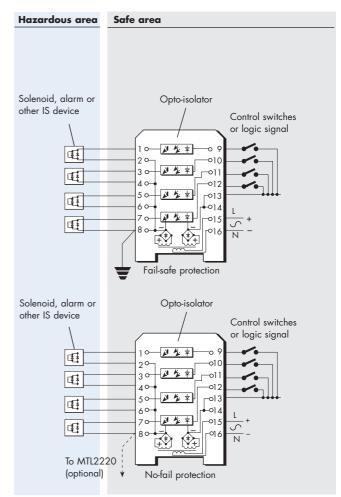
-40 to +80°C (all versions, storage) Safety description (each channel or up to 4 channels

connected in parallel)

28V, 300Ω, 93mA

FM max entity parameters

 $V_{oc} = 34.0V, I_{sc} = 110.4$ mA, $C_a = 0.09$ µF, $L_a = 3.5$ mH



See also MTL2000 approvals, maximum cable parameters, dimensions and ordering information

