

FEATURES

- ✓ Output alarm driver isolator
- ✓ DIN rail mount
- ✓ Zone 0, 11C, T4-6 hazardous area
- ✓ Up to 48mA current output



PRODUCT DESCRIPTION

The MTL5525 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.

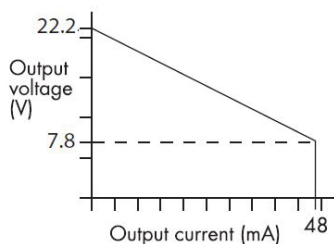
Note: This is an indent item, lead times may apply.

TECHNICAL SPECIFICATIONS

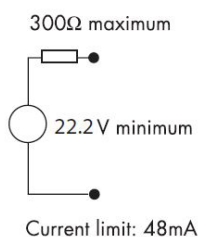
Number of channels	One
Location of load	Zone 0, IIC, T4–6 hazardous area if suitably certified Div.1, Group A, hazardous location
Hazardous-area output	Minimum output voltage: 7.8V at 48mA Maximum output voltage: 24V from 300Ω Maximum off-state output voltage: 4V from 300Ω Current limit: 48mA minimum
Output ripple	< 0.5% of maximum output, peak-to-peak
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 24Vdc
Power dissipation within unit	1.3W with typical solenoid valve, output on 1.9W worst case
Safety description	$U_o = 25V$; $I_o = 83.3mA$; $P_o = 0.52W$; $U_m = 253V$ rms or dc

OUTPUT DIAGRAM

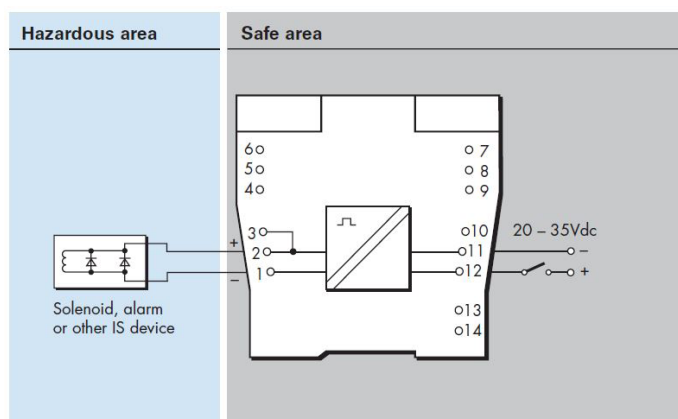
Minimum output voltage



Equivalent output circuit



HAZARDOUS AREA DIAGRAM



APPROVALS

- ✓ IECEx Certificate of Conformity - Cert No. IECEx ITA 08.0009x