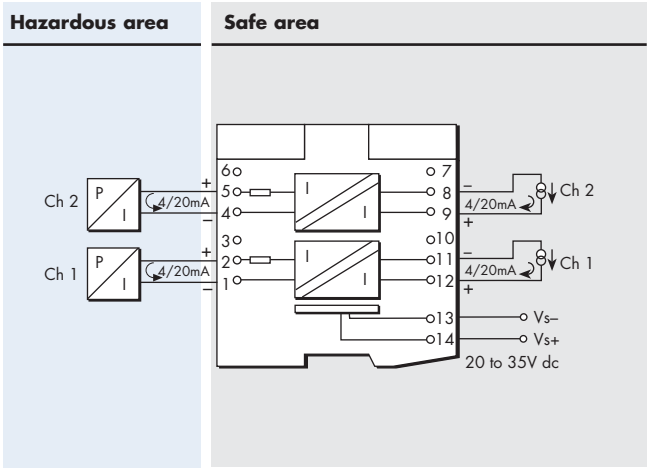
MTL5049 ISOLATING DRIVER

two-channel, 4/20mA

CE

The MTL5049 isolates and passes on two 4/20mA signals from a controller located in the safe area to two loads located in the hazardous area.



SPECIFICATION

See also common specification

Number of channels
Two

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

Safe-area input
Signal range: 4 to 20mA
Under/over range: 0 to 24mA

Hazardous-area output
Load resistance: maximum 550Ω (11V at 20mA)

Output resistance
>2MΩ

Input and output circuit ripple
<40µA peak-to-peak

Transfer accuracy at 20°C
Better than 20µA

Input voltage drop
<4V at 20mA

Response time
Settles to within 10% of final value within 250µs

Temperature drift
<1µA/°C

Terminal	Function
1	Output –ve (channel 1)
2	Output +ve (channel 1)
4	Output –ve (channel 2)
5	Output +ve (channel 2)
8	Input –ve (channel 2)
9	Input +ve (channel 2)
11	Input –ve (channel 1)
12	Input +ve (channel 1)
13	Supply –ve
14	Supply +ve

LED indicator
Green: power indication

Supply voltage
20 to 35V dc

Maximum current consumption (with two 20mA signals)
65mA at 24V
75mA at 20V
50mA at 35V

Maximum power dissipation within unit (with two 20mA signals)
1.4W at 24V
1.5W at 35V

Safety description
28V, 300Ω, 93mA; U_m = 250V rms or dc

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