

# MTL5049 ISOLATING DRIVER

two-channel, 4/20mA



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

### 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

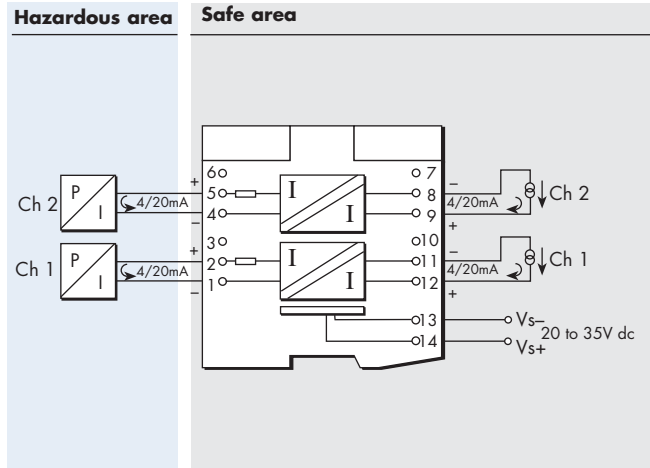
#### (with two 20mA signals)

1.4W at 24V

1.5W at 35V

### Safety description

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



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



EUROPE (EMEA)  
AMERICAS  
ASIA PACIFIC  
E-mail: enquiry@mtl-inst.com

Tel: +44 (0)1582 723633  
Tel: +1 603 926 0090  
Tel: +65 487 7887

Fax: +44 (0)1582 422283  
Fax: +1 603 926 1899  
Fax: +65 487 7997

Web site: www.mtl-inst.com