

# MTL5349 ISOLATING DRIVER

two channel, 4/20mA



The MTL5349 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 transmitters

Zone 0, IIC, T4-6, hazardous area if suitably certified

### Safe-area input

Signal range: 4 to 20mA

Over / under range: 0 to 24mA

### Hazardous-area output

Load resistance: maximum 530Ω (20.1mA max)

(Signal range: 0-24mA if output load <360Ω)

### 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

### Temperature drift

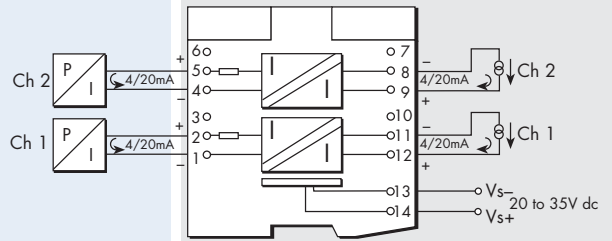
<1μA/°C

### Response time

Settles within 10% of final value within 250μs

Hazardous area

Safe area



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

### LED indicator

Green: one provided for power indication

### Supply voltage

20 to 35V dc

### Power requirement, Vs

67mA at 24V

80mA at 20V

50mA at 35V

### Power dissipation within unit

1.5Wmax at 24V dc

### Isolation

250V between safe and hazardous area circuits, and power supply.

### Safety description

$U_o = 17V$ ,  $I_o = 50mA$ ,  $P_o = 0.3W$ ,  $U_m = 253V$  rms or dc



EUROPE (EMEA)

Tel: +44 (0)1582 723633

Fax: +44 (0)1582 422283

AMERICAS

Tel: +1 281 571 8065

Fax: +1 281 571 8069

ASIA PACIFIC

Tel: +65 6 487 7887

Fax: +65 6 487 7997

E-mail: [enquiry@mtl-inst.com](mailto:enquiry@mtl-inst.com) Web site: [www.mtl-inst.com](http://www.mtl-inst.com)

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