

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

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

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

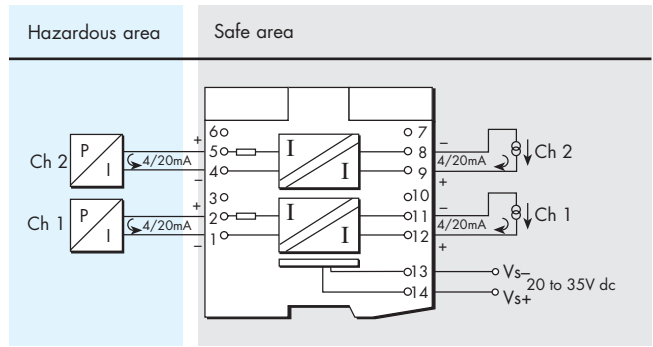
1.5Wmax at 24V dc

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



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



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