

## SPECIFICATION

### Number of channels

One

### Signal source

Any dc millivolt source

### Location of millivolt source

Zone 0, IIC, T4-T6 hazardous area if suitably certified

Div. 1, Group A, hazardous location

### Input and output signal range

0 to  $\pm 50\text{mV}$ , overrange to  $\pm 55\text{mV}$

### Output resistance

60  $\Omega$  nominal

### Transfer accuracy@20° C

Linearity and repeatability  $< 0.05\%$  of reading or  $\pm 5 \mu\text{V}$ , whichever is the greater

### Temperature drift

$< 2 \mu\text{V}/^\circ\text{C}$ , maximum

### Response time

Settles to within 10% of final value within 150  $\mu\text{s}$

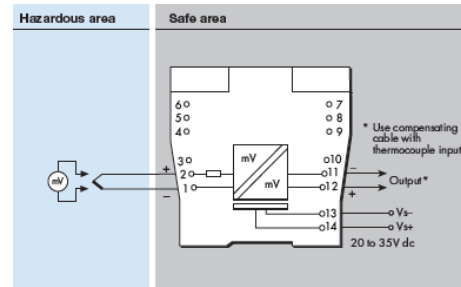
### Frequency response

dc to 4kHz nominal

### Safety drive on THC burnout

Two switches enable or disable the safety drive and select upscale or downscale operation

## Wiring



### LED indicator

Green: power indication

Power requirement, Vs

26mA max, 20V dc to 35V dc

### Power dissipation within unit

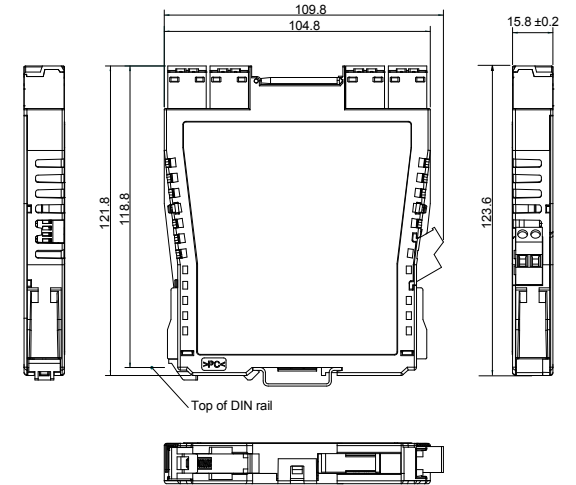
0.6W typical at 24V

0.9W at 35V

### Safety description

Terminals 1 to 2

Non-energy-storing apparatus  $\leq 1.5\text{V}$ ,  $\leq 0.1\text{A}$  and  $\leq 25\text{mW}$ ; can be connected without further certification



### Isolation

250V rms, tested at 1500V rms minimum, between safe- and hazardous-area terminals.

50V between safe-area circuits and power supply

### Supply voltage

20 - 35V dc

### Location of units

Safe area

### Terminals

Accepts conductors of up to 2.5mm<sup>2</sup> stranded or single-core  
Mounting

T-section 35mm DIN rail (7.5 or 15mm) to EN 50022

### Ambient temperature limits

-20 to +60° C (-6 to +140° F) operating

-40 to +80° C (-40 to +176° F) storage

### Humidity

5 to 95% relative humidity

### Weight

Approximate (except where indicated)

MTL5500 150g

### Connectors

Each unit is supplied with signal connectors, as applicable.

When using crimp ferrules for the hazardous or non-hazardous (safe) signal connectors the metal tube length should be 12mm and the wire trim length 14mm.

REV.	PROJECT NAME:	Cooper Industries Japan K.K.	Model name		MTL5581	
REV.	USER NAME :	TEL: +81-(0)3-5420-1281 FAX: +81-(0)3-5420-2405	SIZE	FSCM NO	Drawing No.	rev
REV.	JOB NAME :	DATE: 2011/Jun/7			SS-MTL5581	-
	Ref no.:	CHKD T.IWANE	DRAWN K.KUSAKABE	SCALE N/A	SHEET	1 / 1