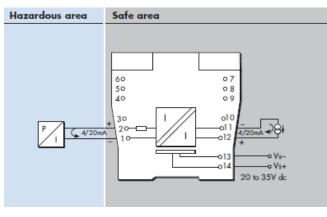
## SPECIFICATION

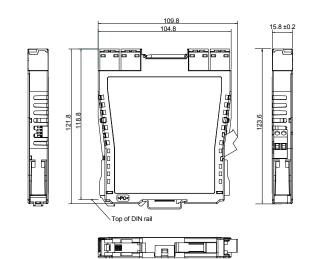
### Number of channels One Location of I/P converter Zone 0, IIC, T4-6 hazardous area if suitably certified Div. 1, Group A, hazardous location Working range 4 to 20mA Digital signal bandwidth 500Hz to 10kHz Maximum load resistance $800 \Omega$ (16V at 20mA) Minimum load resistance 90 $\Omega$ (short-circuit detection at < 50 $\Omega$ ) Output resistance $> 1M\Omega$ <u>Under/over range capability</u> Under range = 1mA Over range = $24 \text{mA} (\text{load} \le 520 \Omega)$ Input and output circuit ripple < 40 $\mu$ A peak-to-peak Transfer accuracy at 20° C Better than 20 $\mu$ A Temperature drift $< 1.0 \,\mu\,\text{A/}^{\circ}$ C Input characteristics Normal < 6.0V Open-circuit < 0.9mA Short-circuit < 0.9mA Response time Settles within 200 $\mu$ A of final value within 100ms Communications supported HART

### Wiring



# LED indicator

Green: power indication <u>Maximum current consumption</u> (with 20mA signals into 250  $\Omega$  load) 35mA at 24V dc <u>Power dissipation within unit</u> (with 20mA signals into 250  $\Omega$  load) 0.8W at 24V <u>Safety description</u> Vo=28V Io=93mA Po=651mW Um = 253V rms or dc <u>SIL capable</u> These models have been assessed for use in IEC 61508 functional safety applications. See data on MTL web site.



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 2.5mm2 stranded or single-core Mounting T-section 35mm DIN rail (7.5 or 15mm) to EN 50022 Ambient temperature limits -20 to  $+60^{\circ}$  C (-6 to  $+140^{\circ}$  F) operating -40 to +80° C (-40 to +176° F) storage Humidity 5 to 95% relative humidity Weight Approximate (except where indicated) MTL5500 150g

#### <u>Connectors</u>

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 MTL5546	
REV.		TEL: +81-(0)3-5420-1281 SIZE FSCM NO Drawing No.	rev
REV.	JOB NAME:	DATE: 2011/May/25 SS-MTL5546	-
	Ref no.:	CHKD T.IWANE DRAWN K.KUSAKABE SCALE N/A SHEET 1	/ 1