

SL418 OmniSLIM

MODEL



inventrys
Eurotherm

Pt100 Converter - Isolated Specification Sheet

- Converts process measurements from Pt100 temperature sensors to voltage or current outputs
- Multiple pre-calibrated temperature ranges are selectable via DIP-switches
- Excellent accuracy, better than 0.1°C or 0.05% of selected range
- Selectable < 30 ms / 300 ms response time
- Excellent 50/60 Hz noise suppression
- Slimline 6 mm housing

Applications

- The SL418 temperature converter measures a standard 2-, 3- or 4-wire Pt100 temperature sensor, and provides an isolated analog voltage or current output.
- The narrow 6 mm housing and very low power consumption allows up to 165 units to be mounted per metre of DIN rail, without any air gap between units.
- High 3 port isolation provides surge suppression and protects the control system from transients and noise.
- The SL418 can be mounted in the safe area or in Zone 2 / Division 2 areas.

Technical characteristics

- Flexibly powered by 24 VDC ($\pm 30\%$) via power rail or connectors.
- Selectable < 30 ms / 300 ms response time provides either fast response or signal dampening as needed.
- Excellent conversion accuracy in all available ranges, better than 0.1°C or 0.05% of selected range.
- Meeting the NAMUR NE21 recommendations, the SL418 provides top measurement performance in harsh EMC environments.
- The device meets the NAMUR NE43 standard defining out of range and sensor error output values.
- A visible green LED indicates operational status of the unit and the input sensor.
- All terminals are protected against overvoltage and polarity error.
- High galvanic isolation of 2.5 kVAC.
- Excellent signal/noise ratio of > 60 dB.

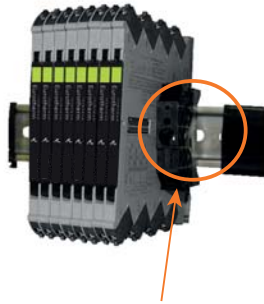
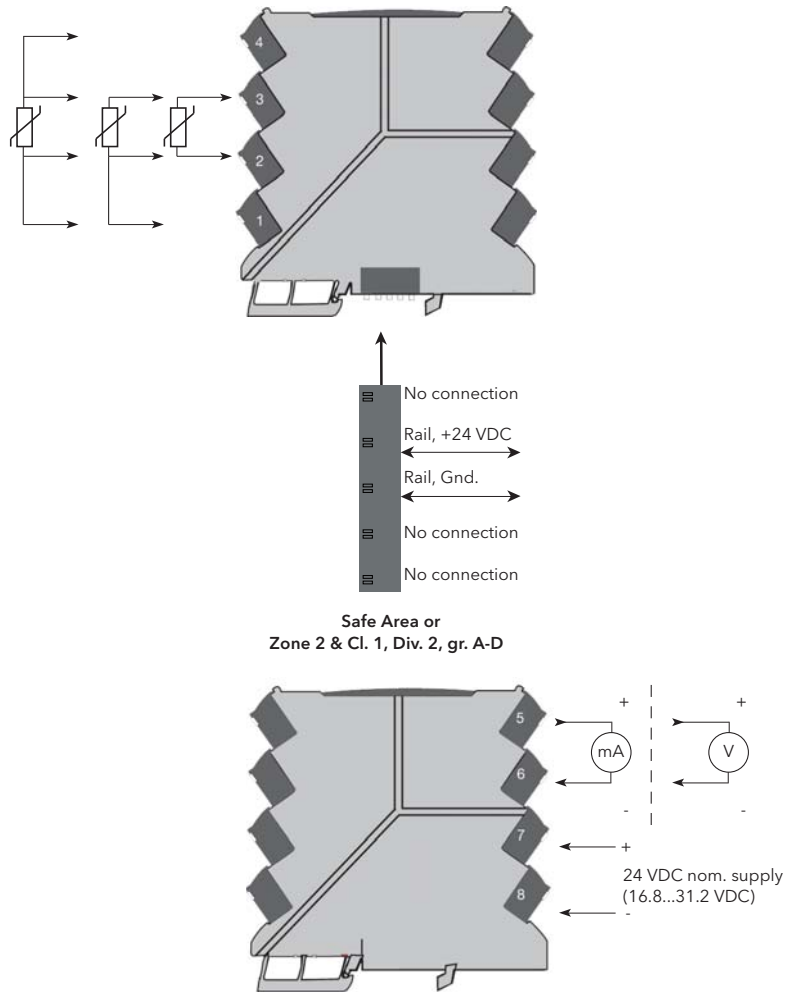
Mounting / installation / programming

- Easy configuration of more than 1000 factory calibrated measurement ranges via DIP-switches.
- A very low power consumption allows DIN rail mounting without the need for any air gap.
- Wide ambient temperature range of -25...+70°C.


ACTION INSTRUMENTS

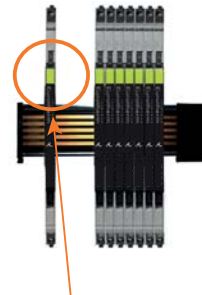


Connections



Installation on a 35mm DIN rail

The OmniSLIM devices must be supported by module stops - part number MOD-STOP.



Marking

The front cover of the OmniSLIM units has been designed with an area for affixation of a click-on marker. The area assigned to the marker measures 5 x 7.5 mm.

Order codes



1	Type	3	Accessories & Spares
OMNISLIMT	OmniSLIM Temperature Conditioner	PSR-750X	Power rail 750mm (35x7.5mm DIN Rail)
		PSR-500X	Power rail 500mm (35x7.5mm DIN Rail)
		PSR-250X	Power rail 250mm (35x7.5mm DIN Rail)
		PSR-CVRX	End covers for Power Rail
		MOD-STOP	Module Stop
		PSC-100U	Power Connector Unit (Din Rail)
SL418	Single Channel Isolated PT100 Temperature Converter		

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