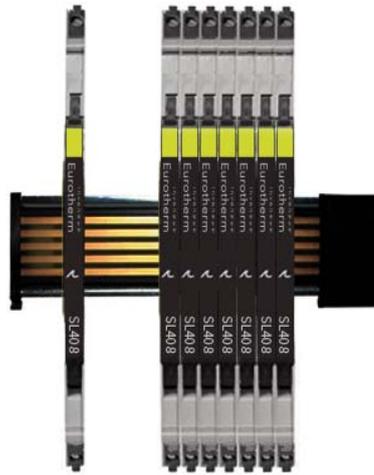


SL408 OmniSLIM

MODEL



invenys
Eurotherm

Isolated Converter Specification Sheet

- Isolation and conversion of standard DC signals
- Slimline housing of 6 mm
- Power supply and signal isolator for 2-wire transmitter
- Loop supply >17 V
- DIP-switch configured

Applications

- Isolation and conversion of standard DC signals.
- Galvanic separation of analogue current and voltage signals.
- Elimination of ground loops and measurement of floating signals.
- A competitive choice in terms of both price and technology for galvanic isolation of current and voltage signals to SCADA systems or PLC equipment.
- Installation in ATEX Ex zone 2 / FM division 2.

Technical characteristics

- Easy configuration via DIP-switches.
- The input is protected against overvoltage and polarity error.
- Factory-calibrated measurement ranges.
- Inputs and outputs are floating and galvanically separated.


ACTION INSTRUMENTS



Specification

Electrical specifications

Specifications range:	-25°C to +70°C
Storage temperature:	-40°C to +85°C
Installation in pollution degree 2 and measurement /overvoltage category II.	

Common specifications

Supply voltage, DC:	16.8...31.2 VDC
Internal consumption, typ./max:	0.4 W / 0.65 W
Power consumption, max:	1.2 W
Isolation voltage, test:	2.5 kVAC
Working isolation voltage:	300 VAC / 250 VAC (Ex)
Accuracy:	< ±0.05% of span*
Temperature coefficient:	< ±0.01% of span* / °C

EMC immunity influence:	< ±0.5% of span*
Extended EMC immunity:	
NAMUR NE 21, A criterion, burst:	< ±1% of span*

*(of span = of the DIP-switch selected output range)

Signal / noise ratio:	> 60 dB
Response time (0...90%, 100...10%):	< 7 ms
Calibration temperature:	20...28°C
Wire size (max.):	0.13 x 2.5 mm ² / AWG 26...12 stranded wire
Screw terminal torque:	0.5 Nm
Relative humidity:	< 95% RH (non cond.)
Dimensions (H x W x D):	113 x 6.1 x 115 mm
DIN rail type:	EN 60715 - 35 mm
Protection degree:	IP20
Weight:	70 g

Current input

Measurement range:	0...20.5 mA
Functional range:	0...23 mA
Programmable measurement ranges:	0...20 and 4...20 mA
Input voltage drop:	< 1.5 VDC
2-wire transmitter supply:	> 17 V / 20mA

Voltage input

Measurement range:	0...10.25 V
Functional range:	0...11.5 V / 0...5.75 V
Programmable measurement ranges:	0...5 / 1...5 / 0...10 / 2...10 V
Input resistance:	≥ 500 kΩ

Current output

Signal range (span):	0...20.5 mA
Programmable signal ranges:	0...20 and 4...20 mA
Load (max.):	23 mA / 600 Ω
Load stability:	≤ 0.01% of span* / 100 Ω
Current limit:	≤ 28 mA

Voltage output

Signal range:	0...10 V
Programmable signal ranges:	0...10 / 2...10 / 0...5 / 1...5 V
Load (min.):	> 10 kΩ

Approvals

EMC 2004/108/EC:	EN 61326-1
LVD 2006/95/EC:	EN 61010-1
UL, Standard for Safety:	UL 61010-1
Safe Isolation:	EN 61140

Ex / I.S.

ATEX 94/9/EC:	DEKRA 13ATEX 0137X
c FM us:	3049859-2

DIP-switch configuration

Input
Current
0...20 mA



Input
Current
4...20 mA



Input
Voltage
0...10 V



Input
Voltage
2...10 V



Input
Voltage
0...5 V



Input
Voltage
1...5 V



Input
Tx (Active)
0...20 mA



Input
Tx (Active)
4...20 mA



Output
Current
0...20 mA



Output
Current
4...20 mA



Output
Voltage
0...10 V



Output
Voltage
2...10 V



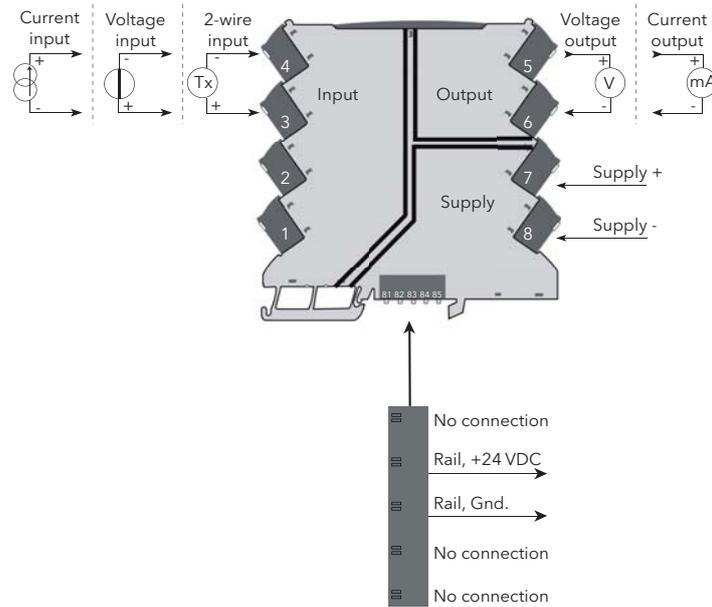
Output
Voltage
0...5 V



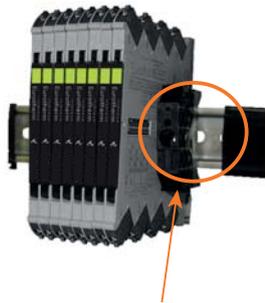
Output
Voltage
1...5 V



Connections

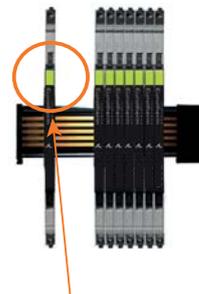


Safe Area or
Zone 2 & Cl. 1, Div. 2, gr. A-D



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

OMNISLIM OmniSLIM Voltage/Current
Conditioner

2 OmniSLIM

SL408 Single Channel Isolated
Converter

3 Accessories & Spares

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) 2.5A max,
powering up to 100 units

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