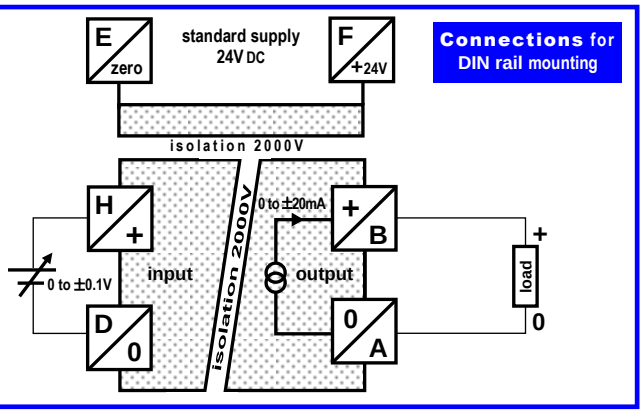
ELECDAN Converter

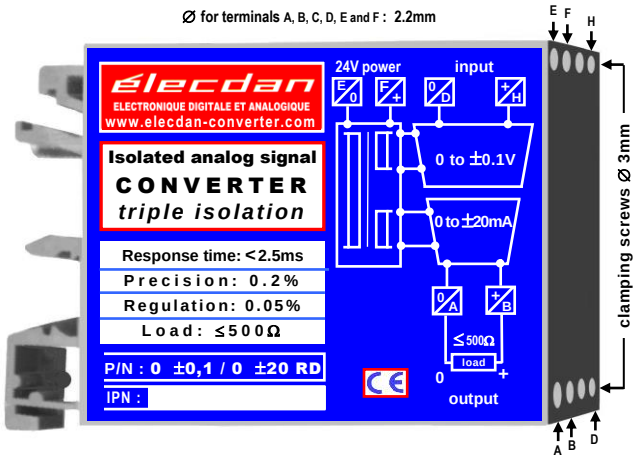
Isolated CONVERTER voltage ⇨ current

0 to±100mV⇨0 to±20mA — Triple isolation

CSA 11 4329

Conversion of low bipolar voltage into proportional bipolar current; multiple protections; easy set-up; economical





Case for DIN rail: 66 x 53 x 22.5 mm
SKU: 0 ±0.1 / 0 ±20 RD

Case for WALL mounting:
50.8 x 50.8 x 20 mm
SKU: 0 ±0.1 / 0 ±20 P

Case for PRINTED CIRCUIT:
50.8 x 50.8 x 20 mm
SKU: 0 ±0.1 / 0 ±20 CI

This mini-module with triple isolation (2000V) **proportionally converts "0 to ±100mV"** applied on its input into "**0 to ±20mA**", rapidly and precisely.

Input 0 to ±100mV ; impedance >100kΩ

Output 0 to ±20mA, on load ≤500Ω

Accuracy better than 0.2%

Regulation <5.10^{-4}, with load varying from 0 to 500Ω

Ripple < 300µA

Response time < 2.5 ms (can be increased upon request)

Isolation Triple { input / output, input / supply, output / supply } 2000V

Power supply voltage

- standard, 24V DC ±10% / < 45 mA
- optional power supply:
  - 24V~ or 110V~ or 230V~ ±10% / 48Hz to 400Hz
  - 5V or 12V or 48V DC

Possible load ≤ 500Ω

Protections

- against **inverted connections on the power supply**
- against **accidental overvoltage on input:** ± 0.5V
- against **overloads and short-circuits**
- against **bipolar overvoltages on the output**
- **isolations 2000V**
- against **vibrations, and tropicalisation:** with moulding
- **sealing IP67,** except connections
- **elimination of the faulty-contact risk** *(no DIL switch)*
- **negligible temperature rise** *(high performance conversion)*
- **electromagnetic compatibility CEM 89 / 336 / CE**

Temperatures

- **coefficient:** < 2.10^{-4} / °C
- **operation:** -20°C to +60°C
- **storage:** -40°C to +90°C

Three modules

- **DIN rail mounting** (RD)
- **wall mounting** with external connector and 2 M3 screws (P)
- **mounting on printed circuit**, connecting pins ∅ 1mm (CI)

Optional: all-aluminum case, 89 x 35 x thickness 16 or 30mm, with three mounting possibilities (M)

Standard SKU (supply 24V DC)	Dimensions of the cases (mm) - *Weight (grams)*														Pre-tax price
	Mounting on DIN rail (RD) Dimensions / *Weight*				Mounting on wall (P) Dimensions / *Weight*				Center distance between 2 M3	Mounting on printed circuit (CI) Dimensions / Pins center distance / *Weight*					
0 ±100mV / 0 ±20 RD	66 + 11	53 + 9	22.5	*145g*						Pins distance :	43.18 x (5.08 + 33.02 + 5.08)				
0 ±100mV / 0 ±20 P					50.8	50.8 + 10	20	*120g*	43.18						
0 ±100mV / 0 ±20 CI										50.8	50.8	20	*120g*		
OPTIONAL INPUT VOLTAGES: 5V or 12V or 48V DC															
OPTIONAL INPUT VOLTAGES: 24V~ or 110V~ or 230V~															

After SKU please write the desired input voltage and case – *Example:* 0 ±0.1 / 0 ±10 / 5 RD for optional 5V voltage supply and case to be mounted on DIN rail

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