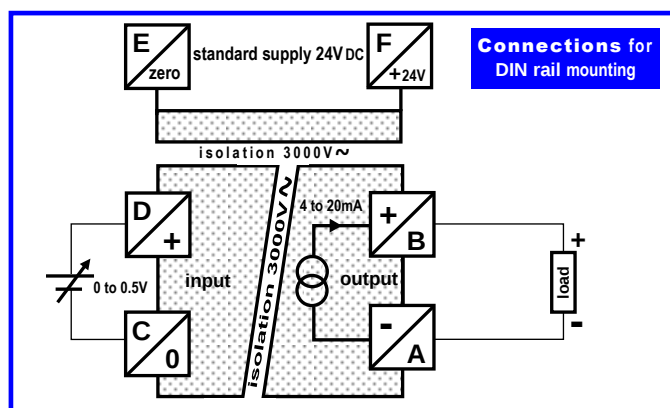


Voltage conversion

"0 to 500mV" into standardized current "4 to 20mA"; multiple protections; easy set-up; economical



This mini-module with triple isolation (3000V~) converts "0 to 500mV" input signals into "4 to 20 mA", rapidly and precisely.

Input 0 to 500mV; $i_{in\ max} = 500\mu A$

Output 4 to 20mA, on load $\leq 500\ \Omega$

Accuracy better than 0.2%

Regulation $< 10^{-4}$, with load varying from 0 up to 500 Ω

Ripple $< 150\ \mu A$

Response time $< 3\ ms$ (can be increased upon request)

Isolation Triple $\left\{ \begin{array}{l} \text{input / output} \\ \text{input / supply} \\ \text{output / supply} \end{array} \right\} 3\ KV \sim$

Power supply voltage

- standard, 24V DC $\pm 5\%$ / $< 25\ mA / 500\ \Omega$ loaded and $< 15\ mA$ unloaded
- optional power supply:
 - ♦ 24V~ or 110V~ or 230V~ $\pm 10\%$ / 48Hz to 400Hz
 - ♦ 5V or 12V or 48V DC

Possible load 0 to maximum 500 Ω

Protections

- against inverted connections on the input and power supply
- against accidental overvoltage on input: 2V
- against overloads and short-circuits
- against bipolar overvoltages on the output
- isolations 3000V~
- 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

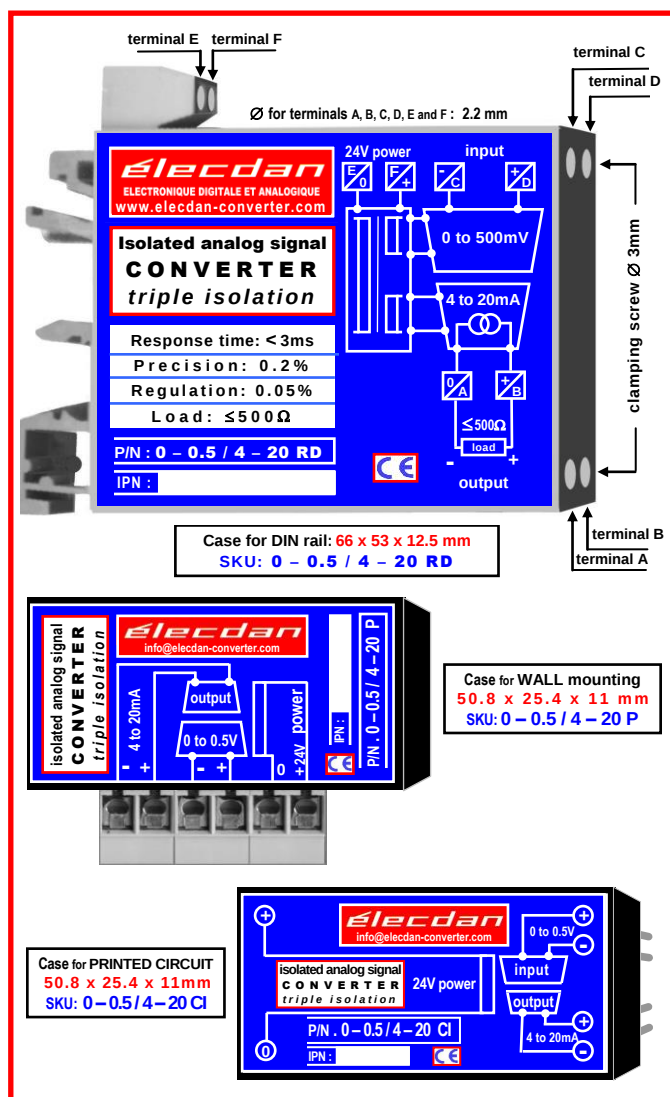
Temperatures

- coefficient: $< 2.10^{-4} / ^\circ C$
- operation: $-20^\circ C$ to $+60^\circ C$
- storage: $-40^\circ C$ to $+90^\circ C$

Three modules

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

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



Case for DIN rail: 66 x 53 x 12.5 mm
SKU: 0 - 0.5 / 4 - 20 RD

Case for WALL mounting
50.8 x 25.4 x 11 mm
SKU: 0 - 0.5 / 4 - 20 P

Case for PRINTED CIRCUIT
50.8 x 25.4 x 11mm
SKU: 0-0.5/4-20 CI

Standard SKU (supply 24V DC)		Dimensions of the cases (mm) - <i>Weight (grams)</i>													Pre-tax price
		Mounting on DIN rail (RD) Dimensions / <i>Weight</i>				Mounting on wall (P) Dimensions / <i>Weight</i>				Center distance between 2 M3	Mounting on printed circuit (CI) Dimensions / Pins center distance / <i>Weight</i>				
0-0.5 / 4-20 RD		66 + 11	53 + 9	12.5	65g					Pins distance $\left\{ \begin{array}{l} 43.18 \times (5.08 + 7.62 + 5.08) \\ \text{or } 43.18 \times 43.18 \end{array} \right.$					
0-0.5 / 4-20 P						50.8	25.4 + 10	11	35g					43.18	
0-0.5 / 4-20 CI										50.8	25.4	11	30g		
OPTIONAL input voltages	5V or 12V or 48V DC	66 + 11	53 + 9	12.5	65g	50.8	50.8	11	65g	43.18	50.8	50.8	11	65g	
	24V~ or 110V~ or 230V~		53	22.5	125g	70 + 10	50	21	148g	60.96	50	70	21	135g	
	After SKU please write the desired input voltage and case – Example : 0-0.5 / 4-20 / 5 RD for optional 5V voltage supply and case to be mounted on DIN rail														