

**Standard connection interface: 8 channels**

PLC interface

Inputs limitation and protection

Visual diagnosis with leds

Available in PT100 inputs,  
0..4..20mA inputs or output

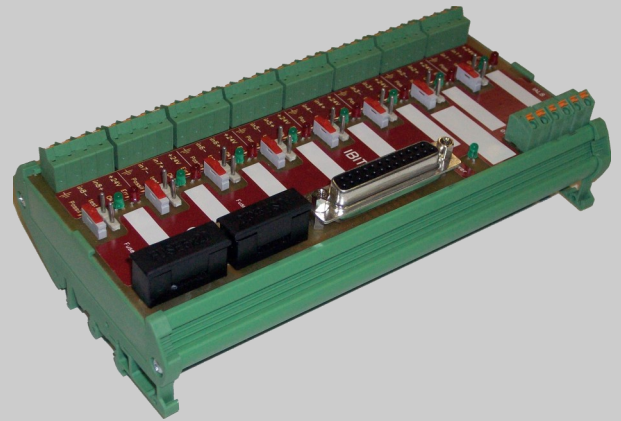
**Specific interface board**

according to user specific request

for all type of input signals, number of channels

EMC protection and limitation

Communicating version with industrial protocols  
(Profibus , Modbus , Modbus TCP, .....)



This series of interface enables a fast, errors free and uniform wiring of inputs/ outputs, thus reducing design costs. The rationalization of schematics reduce the wiring errors, and providing more protections (current limiting, EMC protection).

**Description :**

**0...4...20mA input version**

- Active or passive mode available on each channel
- Each channel can provide a Independent 24V supply, limited in current (25mA) and with EMC protection.
- A red LED light on when the current limitation is activated. This for direct and quick diagnosis.
- A green LED is used to check loop continuity.
- The «TEST» pins allows the measure the current loop without interrupting the channel.
- A green LED for power supply presence
- Inputs are protected against the reverses polarity and short-circuits.
- A switch is used for select the potential of negative input (floating for PLC isolated inputs or tied to ground)

**0...4...20mA output version**

- A green LED is used to check loop continuity.
- The «TEST» pins allows the measure the current loop without interrupting the channel.

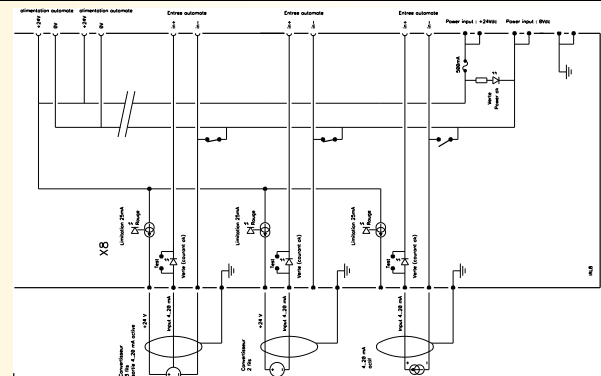
**Features:**

- Plastic holder for DIN rail mounting (symmetric or asymmetric)
- Wiring on spring terminal blocks. Type "push in"  
(section: 0.22mm<sup>2</sup> ..... 1.5mm<sup>2</sup>)
- earth pin in each channel for shielding
- Dual supply terminals for module bridging.
- Electromagnetic fields immunity
- Resistant to vibrations (fully static design)
- Conformal coating
- Small footprint

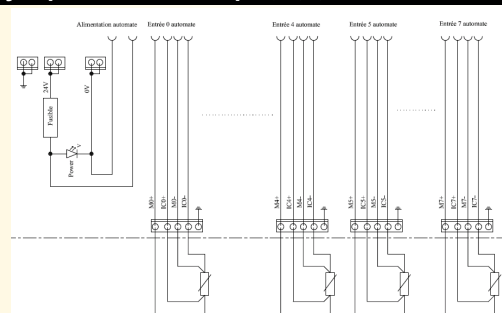
Version and order code: [Request a quote](#)

**IAL8-mAin** : 8 input channels, 0..4...20mA (active or passive)  
**IAL8-mAout** : 8 output channels, 0..4...20mA  
**IAL8-PT4** : 8 channels, PT100 inputs, 3 or 4 wires

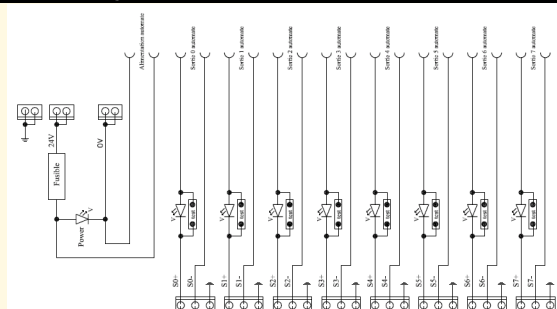
**Synoptic for 0...4...20mA input**



**Synoptic for PT100 input, 2,3,4 wires mounting**



**Synoptic for 0...4...20mA output**



**GENERAL CHARACTERISTICS for input**

Current limitation for 24V outputs: 25mA typical  
 Limiter dropout voltage: 2.5V typical  
 Short circuits duration for 24V outputs: continuous  
 Reverse polarity protection for inputs: 30V  
 Insertion loss for inputs (green LED): 2V typical  
 Insulation resistance at 500V: >10<sup>6</sup> Mohms

**POWER SUPPLY**  
 24Vcc (600mW max per channel)  
 Overload protection by fuse

**ENVIRONMENT**

Dielectric strength (input / output): 1500 Vac  
 Operating temperature : 0 ... +40 °C  
 Storage temperature : - 10 ... +40 °C  
 Relative humidity : 85 % (not condensed)  
 Weight ~ 200 g

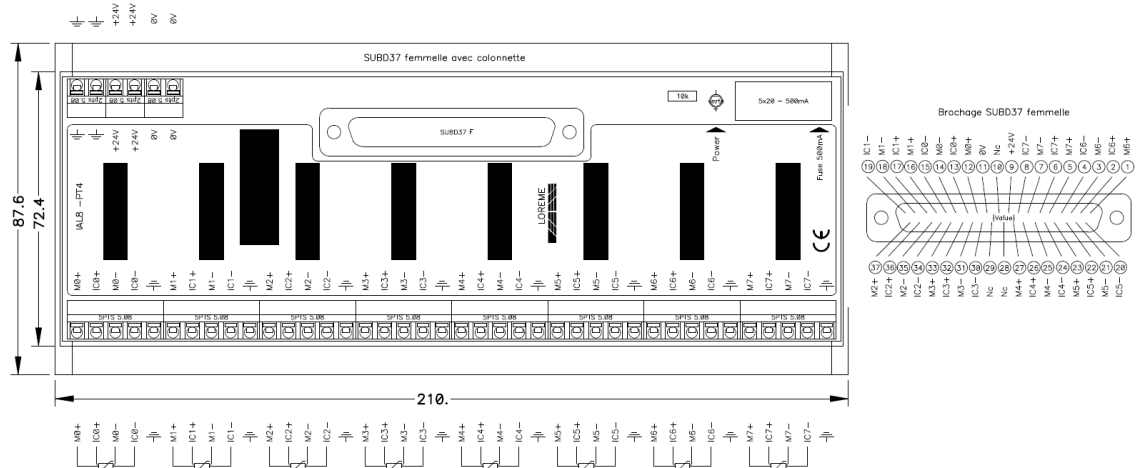
**Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE**

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011  group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	

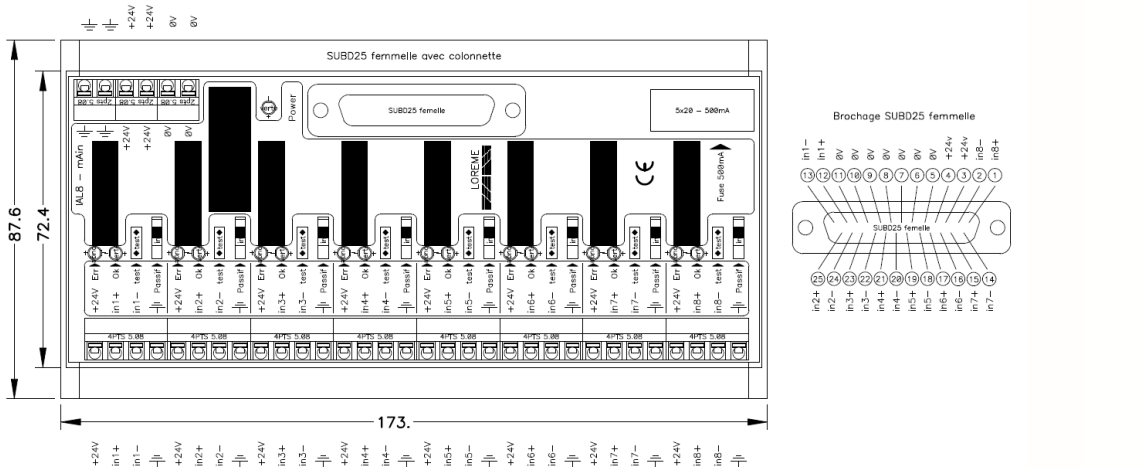


**WIRING AND OUTLINE DIMENSIONS:**

4 wires PT100 version



4..20mA input version



4..20mA output version

