

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

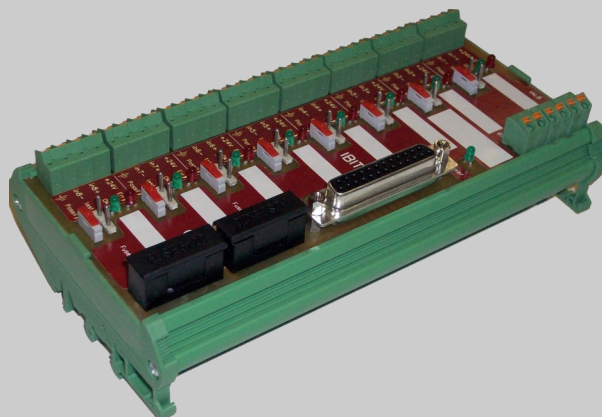
Specific interface board

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)

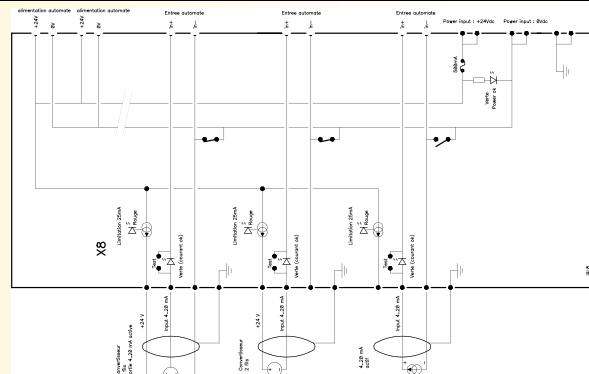
0...4...20mA output version

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

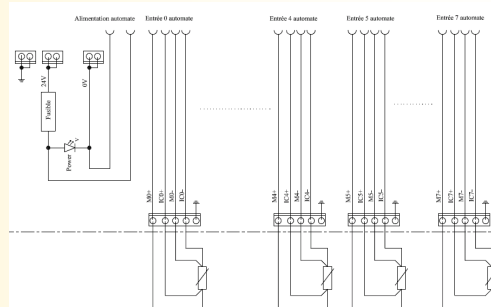
Features:

- Plastic holder for DIN rail mounting (symmetric or asymmetric)
- Wiring on spring terminal blocks. Type "push in" (section: 0.22mm² 1.5mm²)
- 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

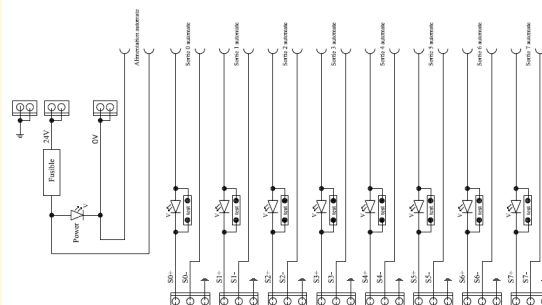
Synoptic for 0...4...20mA input



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



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



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

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: >10⁶ 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

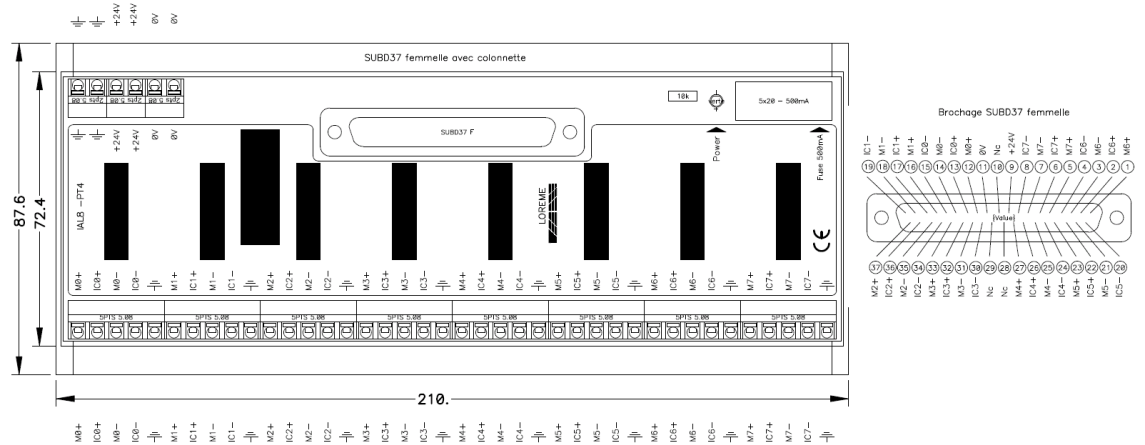
Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

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	

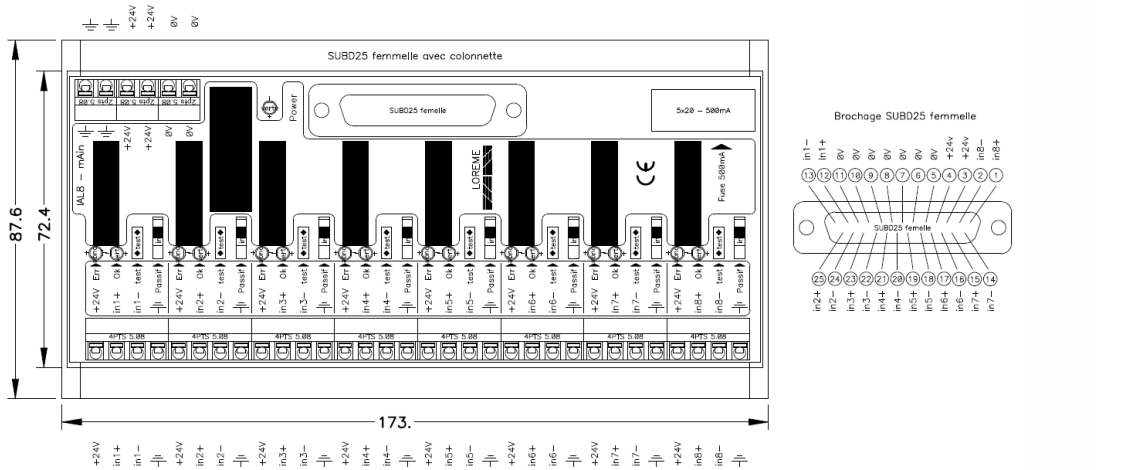


WIRING AND OUTLINE DIMENSIONS:

4 wires PT100 version



4..20mA input version



4..20mA output version

