

- Standard insulation interface : 1,2,4, 8, 16 or 32 channels**

Interfacing with PLC

*Impedance or level adaptation
digital level isolator*

- can be used in digital input or output
- EMC protection

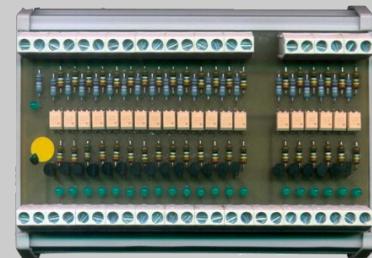


- Board for specific interface**

According to customer specifications :

*Impedance or level adaptation
and EMC protection*

*Communicating version on industrial bus
(Profibus , Modbus , Modbus TCP,)*



In the production field, the electrical equipment of machines, the technical management in the distribution of energy, and in industrial processes, this board enable secure exchange of signals between the periphery and the central command system. Providing insulation, protection and level adaptation.

Description :

Synoptic of a channel

Can be different according to requested adaptation

- Digital interface, can be used as PLC input or output, enable insulation, level adaptation and eventually signal amplification.

(possibility to have up to 500 mA of output current)

- Each channel is composed of a current limiter, an EMC protection, a state display led and an insulation barrier.

- available version for analog signal commutation (input selector with digital command)

- Protection against polarity reversal and shortcut

- Plastic holder for DIN rail mounting (symmetrical or not)

- Spring terminals (nominal section: 1,5 mm²)

- Green leds indicating inputs states

- Galvanic insulation > 1500 Vrms

- Commutation time < 2 msec

- Limitation of input absorbed current < 3.5mA

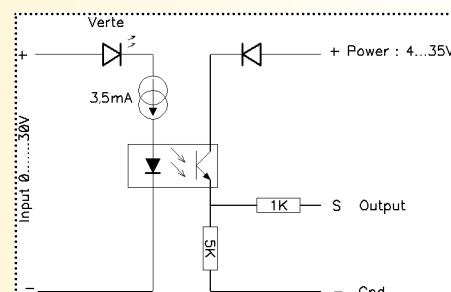
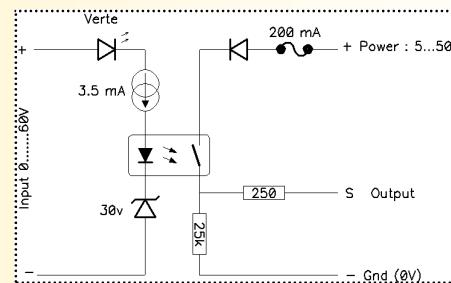
(internal current generator)

- Electromagnetic fields total immunity

- Good vibrations resistance (fully static conception)

- conformal coating

- Available up to 32 channels



Version and order code:

[Request a quote](#)

OPT25iG-xx / Vin / Vout

xx : Number of channels in a module (1 to 32)

Vin : Maximal voltage input (logical level of 1)

Vout : Voltage of output (logical level of 1)

(Specify the output current wanted if necessary)

CARACTERISTICS

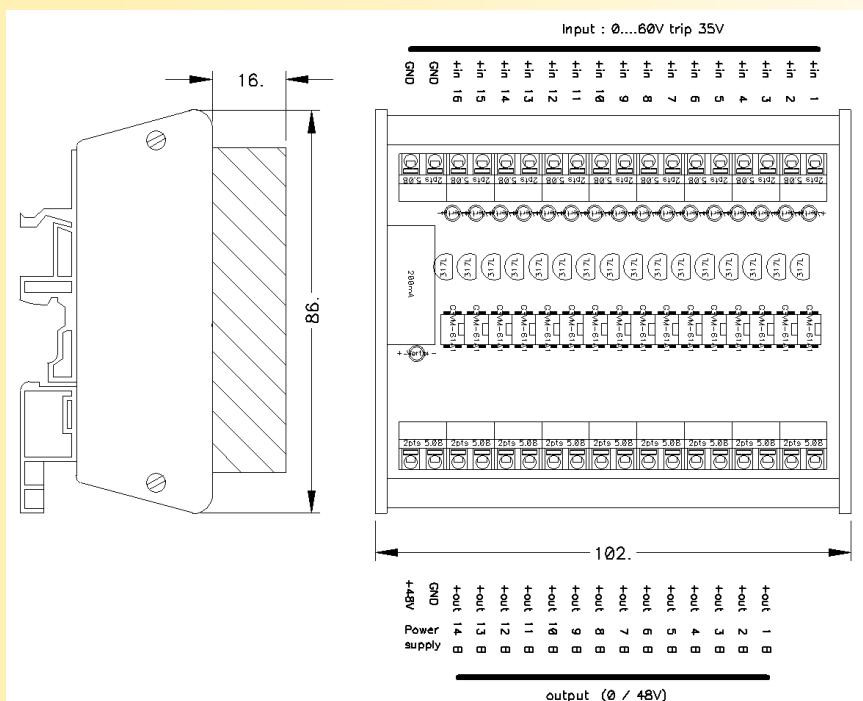
Closing time :	1 mS typ. (maxi 2 mS)
Opening time :	0.1 mS typ. (maxi 0.5mS)
Bounce time :	NA
Operating number :	unlimited (static technology)
Dielectric strength :	1500V continuously
Insulation resistance :	> 10 ³ Mohms (at 500 V)
Commutation level :	Vcc / 2 typical +/-30 %
overshoot on input:	+15% max (continuous)
Current consumption for each digital input :	
Level 1 :	< 5 mA
Level 0 :	< 50uA
Output leakage current :	< 1uA

POWER SUPPLY

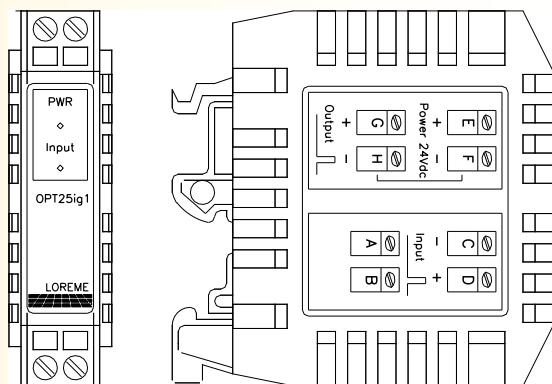
Every direct voltage is possible
5 / 12 / 24 / 48 / 60 Vdc (100mW by channel)
Overload protection by fuse

WIRING AND OUTLINE DIMENSIONS: (execution example)

16 channels version with level adaptation



1 channel version OPT25IG1



Dielectric strength (input / output):	1500 Vac
Operating temperature :	- 25 ... +60 °C
Storage temperature :	- 40 ... +85 °C
Relative humidity :	85 % (not condensed)
Weight	~ 200 g
MTBF (MIL HDBK 217F)	> 4 000 000 Hrs @ 25°C
Lifetime	200 000 Hrs @ 30°C
Lifetime	80 000 Hrs @ 45°C

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

Immunity standard for industrial environments
EN 61000-6-2

EN 61000-4-2 ESD **EN 61000-4-8 AC MF**
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**

Emission standard for industrial environments
EN 61000-6-4

EN 55011
group 1
class A

