

### PROFILE

The **G3-AD8** module has 8 isolated analog inputs that can be used to read signals from various types of linear sensors, from retransmitting units, servocontrols, position systems.

Inputs can be software configurable as voltage (0...10V, ±10V), current (0...20mA, 4...20mA) or potentiometer (>1kΩ).

G3-AD8 can be used with all the G-Mation gateways and Px modules from which it receives power supply.

G3-AD8 can acquire 8 analog inputs in less than 100µs for 8 channels, allowing fast and accurate closed loop and process monitoring applications in combination with EtherCAT communication.



### TECHNICAL DATA

8 analog inputs	16 bit A/D conversion
Sample time	< 100µs for 8 channels
Power supply	From G3-ECAT or Px CPU modules it doesn't need any external power supply connection
Inputs type	Potentiometer min. 1kΩ Linear 0...10V, ±10V Linear 0...20mA, 4...20mA
Input impedance	Potentiometer > 1MΩ Linear 0...10V, ±10V > 1MΩ Linear 0/4...20mA = 500Ω
Accuracy	Better than 0.1% at full scale over the entire temperature range -10°C to +55°C
Potentiometer power supply	4.096 V ± 0.03%
Overvoltage Category	II
Power dissipation	1,2 W, 5%

### MECHANICAL DATA

Dimensions	120x110x20 mm
Weight	150 g
Protection level	IP20 For UL: not UL evaluated. Open type device
Connector	Front 24 pin-5.08 mm pitch removable connection system with spring wire retention, no tool required to fix or remove wires
Attachment	Mechanically snaps onto DIN rail

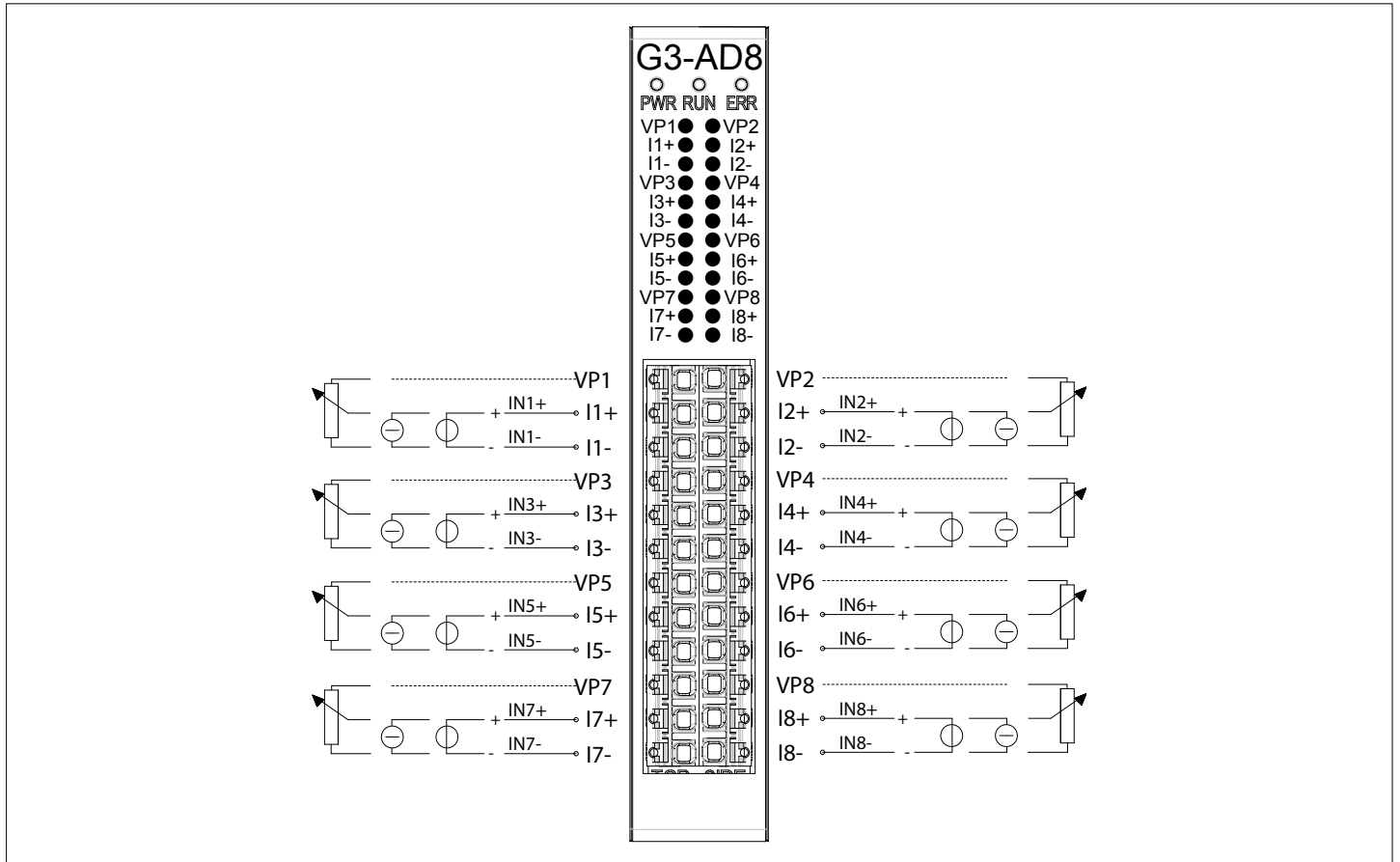
### ENVIRONMENTAL CONDITIONS

Working temperature	-10...55°C
Storage temperature	-25...70°C
Humidity	max. 90% Rh not condensing
Pollution degree	2

## WIRING

Linear 0-10V  $\pm 10V$  0/4-20mA use 2 pin shielded cable with 1 square mm max. cross-section. Connect shielding directly to the grounding rod and as close as possible to the module. Potentiometers use 3 pin shielded cable with 1 square mm max. cross-section. Connect shielding to the grounding rod and as close as possible to the module.

## INSTALLATION AND CONNECTIONS



## ORDERING CODE

COMPLETE MODULE	G3-AD8	F092704
Front	G3-AD8 F	F092618
Electronic module	G3-AD8 E	F092604
Bus	G3-BUS	F092614

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.



This device conforms to European Union Directive 2014/30/EU and 2014/35/EU as amended with reference to generic standards: **EN 61000-6-2** (immunity in industrial environment) **EN 61000-6-4** (emission in industrial environment) - **EN 61010-1** (safety regulations).



cULus listed, Conformity UL61010-1 - File: E198546