

PROFILE

The **G3-SSI2** module has 2 independent inputs that can be used to read signals from sensors with SSI interface. The operating mode can be programmed for each counter as output clock frequency (from 10kHz to 2MHz), number of transmission bits (24, 25 or 32 bit), input data encoding (binary or Gray), diagnostics for interruption of sensor connection and no external power supply.

For fast response with counters 2 digital inputs and 2 digital outputs can be wired directly to the board.

G3-SSI2 is EN61131-2 compliant and can be used with all the G-Mation gateways and Px modules from which it receives power supply.

It can acquire 2 inputs in minimum 30 μ s for 2 channels (time dependent on the set clock frequency and the number of bits to be transmitted), in combination with EtherCAT communication.



TECHNICAL DATA

2 SSI inputs	24, 25 or 32 bit
Sampling time	> 30 μ s for 2 channels
Input voltage	8..32Vdc, 25mA max
Input insulation	>2kV
Overvoltage on inputs for 1 ms	1kV max
Input type	SSI interface
Sensors power supply	24Vdc, 500mA max from pin 1 supply and internally distributed to channels +5V internally generated
2 digital inputs	24Vdc \pm 25% optically isolated
Maximum input voltage	32V@5mA
Protection against reverse polarity	Yes
Input voltage trigger levels and current	IEC61131-2 Type1, Type3 inputs
2 digital outputs	24VDC \pm 25% optically isolated
Maximum voltage of power supply	32V
Maximum current per channel	max 0.1A
Isolation	>1.5kV
Power supply	From G3-ECAT or Px CPU modules for control electronics, +24V (\pm 25%) for Field Signals
Power dissipation	1,2 W, \pm 5%

INPUT CONFIGURATION

Data Format	24, 25 or 32 bit
Coding	Binary, Gray
Output clock frequency	10Hz, 25Hz, 50Hz, 100Hz, 250Hz, 500Hz, 1MHz, 2MHz
Diagnostic	Sensor input no signal, No external power supply

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

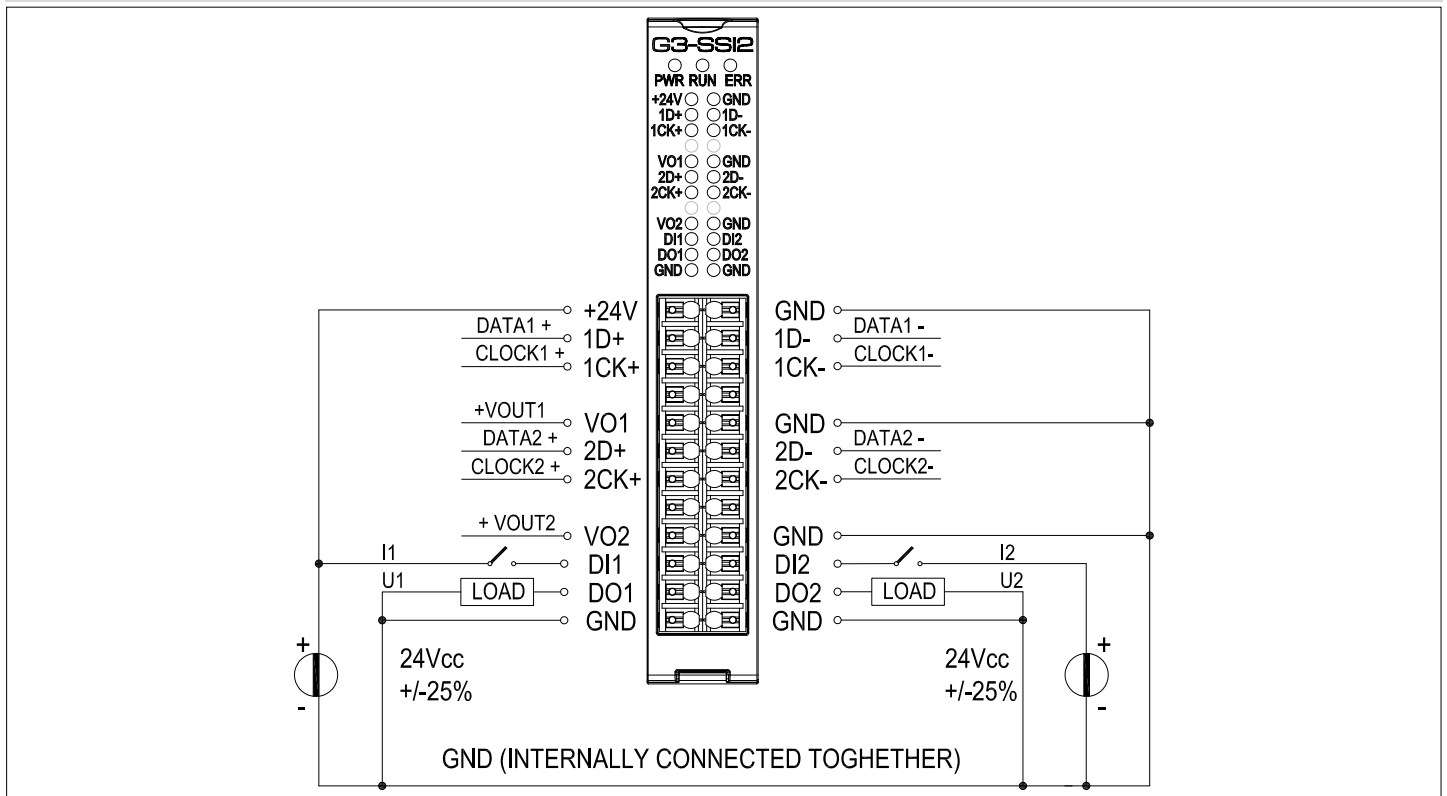
ENVIRONMENTAL CONDITIONS

Working temperature	-10...55°C
Storage temperature	-25...70°C
Humidity	max. 90% Rh not condensing
Pollution degree	2
Maximum altitude	2000 m

WIRING

Power supply 24 VDC \pm 25% 500 mA max, use unipolar cable with 1 square mm maximum cross-section .
SSI inputs, use shielded cable with 1 square mm maximum cross-section.

INSTALLATION AND CONNECTIONS



ORDER CODE

COMPLETE MODULE	G3-SSI2	F092712
Front	G3-SSI2 F	F092626
Electronic module	G3-SSI2 E	F092612
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