

#### PROFILE

The **G3-EU20** module has 10 optically isolated digital inputs, 24 VDC, current sink and 10 optically isolated, current source digital outputs at 24 VDC $\pm$  25%, 0.5A. It acquires logic signals from contacts, proximity sensors, drives and other IEC61131-2 compatible 24V digital output devices and max directly power loads in VDC within the limits of rated currents, or control loads of any kind via solid state relay, contactors.

G3-EU20 can be connected with all the G-Mation gateways and Px modules from which it receives power supply.

Each input is protected against reverse polarity and has a dedicated LED to indicate its state.

Each input has an independent software selectable input filter. 2 inputs are software configurable to measure frequencies up to 1,5kHz.

The outputs have maximum current of 5A

Each output is protected against short-circuit, overload and overheating and has a dedicated LED to indicate its state.

There is an Internal demagnetization circuit for inductive loads.



#### TECHNICAL DATA

10 digital inputs	24Vdc $\pm$ 25% optically isolated
Maximum input voltage	32V@5mA
Protection against reverse polarity	Yes
Input voltage trigger levels and input current	IEC61131-2 Type1, Type3 inputs
Software selectable input filters	100Hz and 5KHz
Input 9-10 configurable as frequency meter	Up to 1,5kHz. Frequency value is in RPM with resolution 1, 10, or 100RPM
Hold time for transition detection	0->1: 10us 1->0: 45us
10 digital outputs	24Vdc $\pm$ 25% optically isolated
Maximum voltage of power supply	32V
Maximum current per channel	max 0.5A (5A total)
Current protection for single output	>1.2 A
Transition time	0->1: 15us 1->0: 38us
Outputs switching frequency	250Hz
Isolation	1.5kV
Power supply	From G3-ECAT or Px CPU modules for control electronics, +24V ( $\pm$ 25%) for Field Signals
Overvoltage Category	II
Power dissipation	1,2 W, $\pm$ 5%

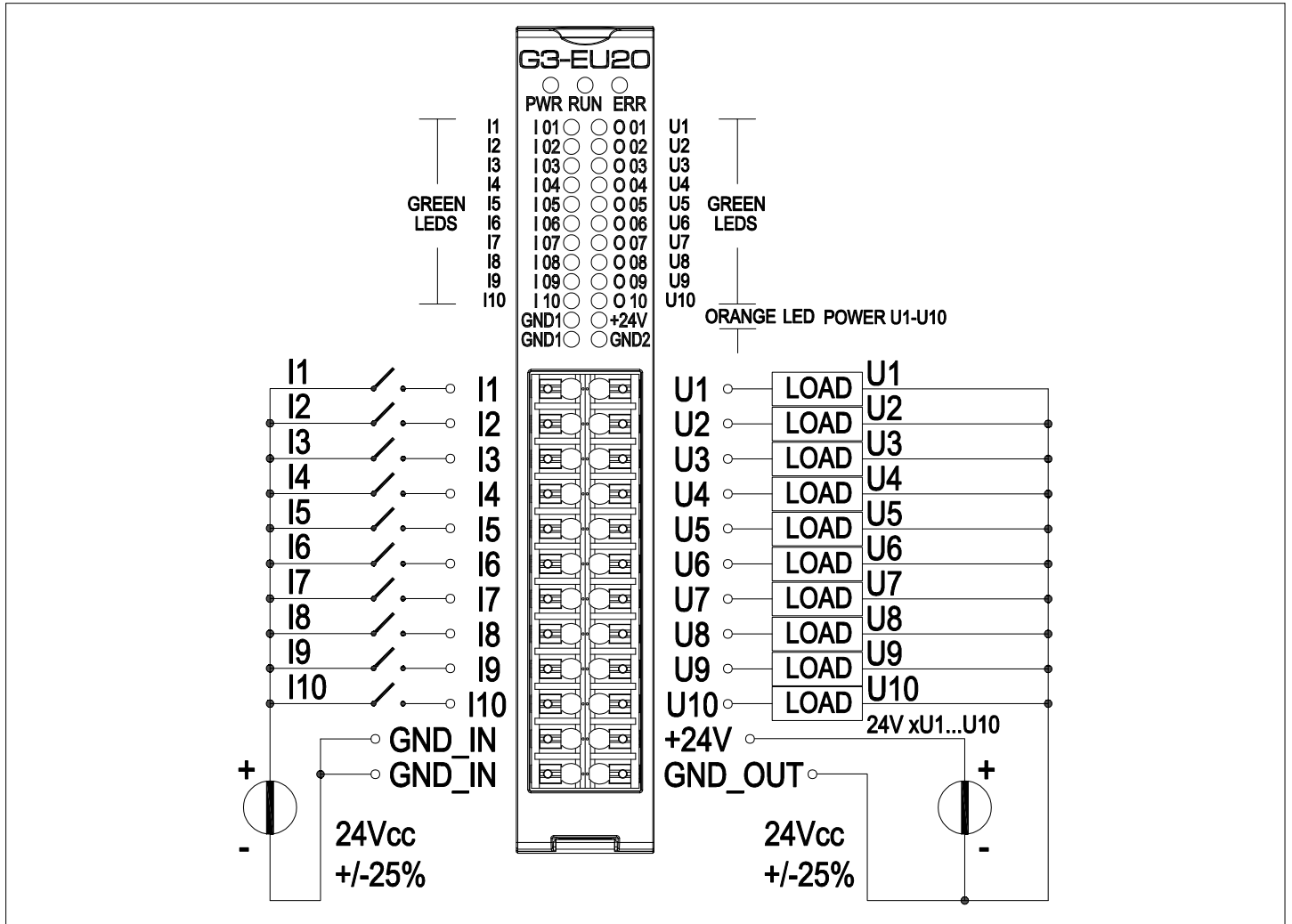
#### MECHANICAL DATA

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
Maximum altitude	2000 m

## INSTALLATION AND CONNECTIONS



## ORDER CODE

COMPLETE MODULE	G3-EU20	F092703
Front	G3-EU20 F	F092617
Electronic module	G3-EU20 E	F092603
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: <b>EN 61000-6-2</b> (immunity in industrial environment) <b>EN 61000-6-4</b> (emission in industrial environment) - <b>EN 61010-1</b> (safety regulations).
	cULus listed, Conformity UL61010-1 - File: E198546