

#### PROFILE

The **G3-U20** module has 20 optically isolated, currentsource digital outputs at 24 VDC $\pm$  25%, 0.5A/2A max directly power loads in VDC within the limits of rated currents, or control loads of any kind via solid state relay, contactors.

G3-U20 can be connected with all the G-Mation gateways and Px CPU modules from which it receives power supply.

The outputs are divided into 2 groups of 16 and 4 outputs, with maximum current of 8A per group.

Each output is protected against short-circuit, overload and overheating.

There is an Internal demagnetization circuit for inductive loads.



#### TECHNICAL DATA

Controls 20 optically isolated digital outputs	24VDC $\pm$ 25%
Organization	2 groups of 16 outputs (1..16) and 4 outputs (17...20)
Maximum voltage of power supply	32V
Maximum current per channel	1...16 max 0.5A, Outputs 17...20 max 2A each
Maximum current for group	8A
Current protection for single output	Outputs 1...16 >0.7A, outputs 17...20 > 2.2A
Current protection for each group	Outputs 1...16 >10A, outputs 17...20 > 2.2A
Transition time	>1: 15us >0: 38us
Outputs switching frequency	250Hz
Isolation	> 1.5kV
Power supply	From G3-ECAT or Px CPU modules board for control electronics, +24V ( $\pm$ 25%) for Field Signals
Overvoltage	II
Power dissipation	1,2 W, $\pm$ 5%

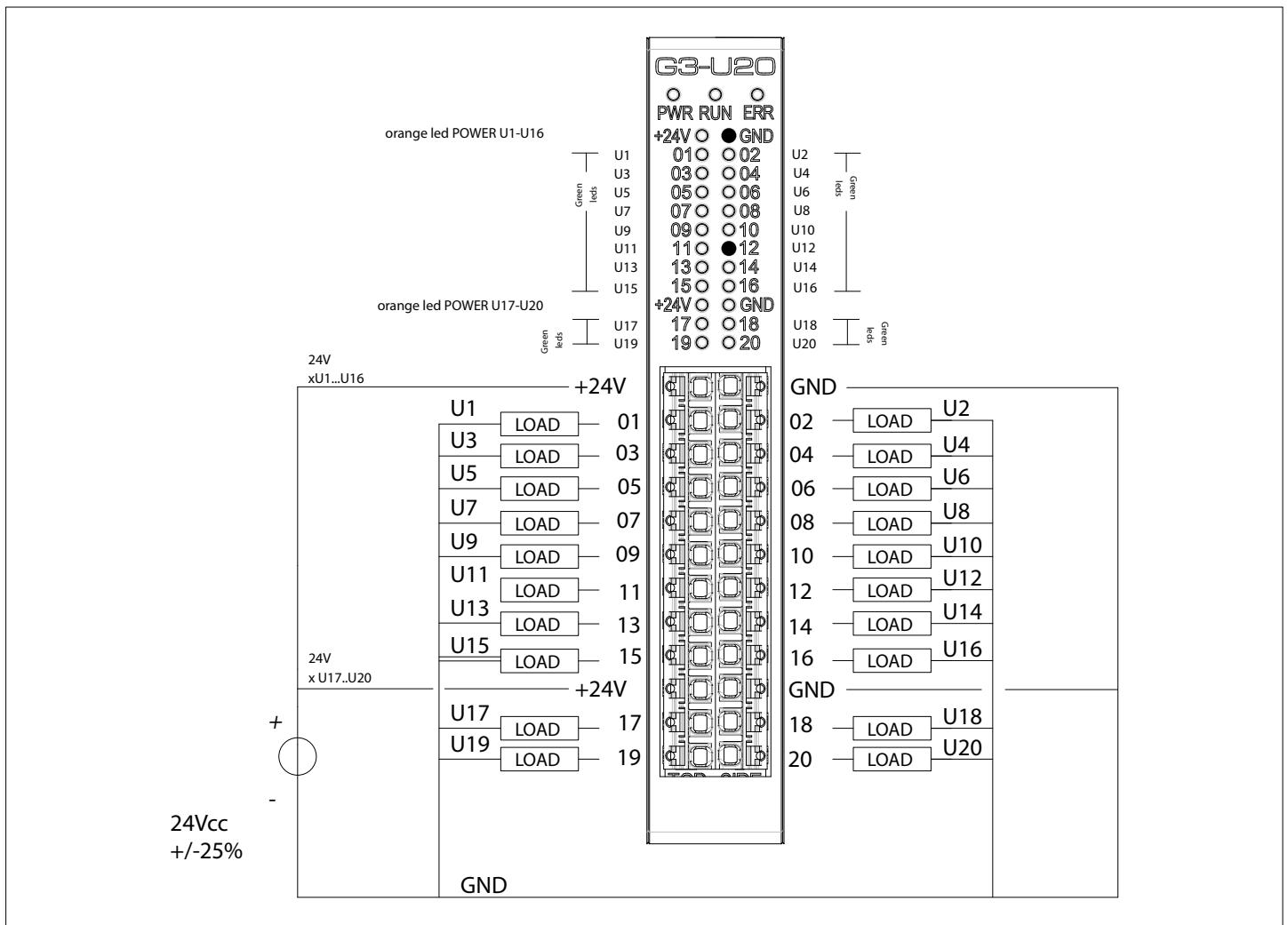
#### MECHANICAL DATA

Dimensions	120x110x60 mm
Weight	150 g
Protection level	IP20 For UL: not UL evaluated. Open type device
Connectors	Front 24 pin-5.08 mm pitch removable connection system with spring wire retention, no tool required to fix or remove wires and module
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



## ORDERING CODE

COMPLETE MODULE	G3-U20	F092702
Front	G3-U20 F	F092616
Electronic module	G3-U20 E	F092602
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