

PROFILE

The **G3-E20** module has 20 optically isolated digital inputs, 24 VDC, current sink.

It acquires logic signals from contacts, proximity sensors, drives and other IEC61131-2 compatible 24V digital output devices.

G3-E20 can be connected with all the G-Mation gateways and Px CPU 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. 4 inputs are software configurable to measure frequencies up to 1,5kHz.



TECHNICAL DATA

Acquisition of sink current optically isolated digital inputs	24Vdc \pm 25%
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 17-18-19-20 configurable as frequency meter	Up to 1,5kHz. Frequency value is given in RPM with resolution 1, 10, or 100RPM
Hold time for transition detection	0->1: 10us 1->0: 45us
Isolation	1.5kV
Power supply	From G3-ECAT or Px CPU, it doesn't need any external power supply connection
Overvoltage Category	II
Power dissipation	1,2 W, \pm 5%

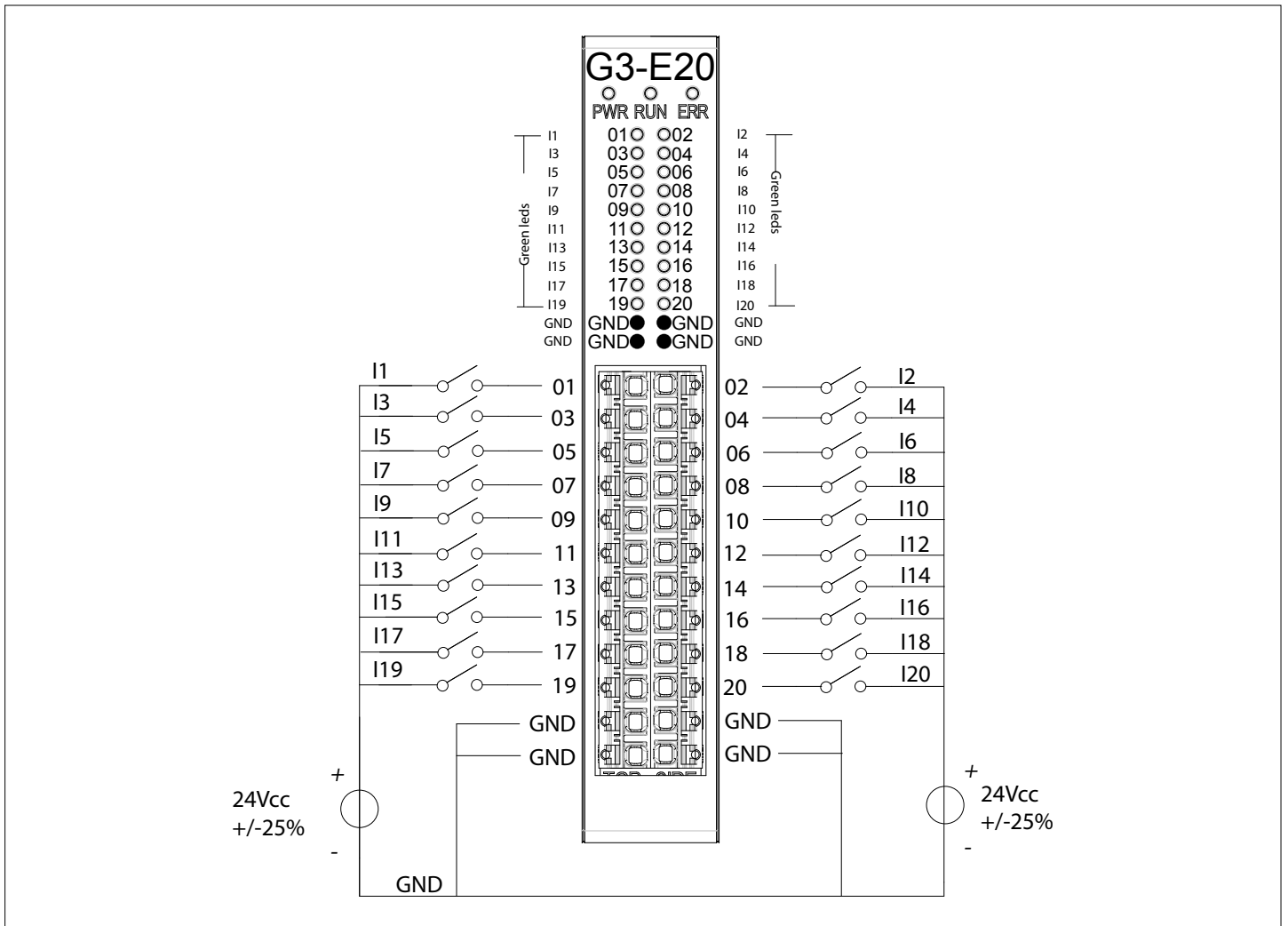
MECHANICAL DATA

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-E20	F092700
Front	G3-E20 F	F092615
Electronic module	G3-E20 E	F092600
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