

INSTALLATION AND OPERATION MANUAL

cod. 80122C / Edit 04 - 0809 - ENG

1 • MAIN FEATURES

- Inputs for Differential, Single Ended, Push Pull, Open Collector encoder
- Intercepts of speed level
- 32 bit counters
- Software configuration of inputs
- Diagnostic LEDs for power supplies and alarm
- Removable connectors supplied

2 • INSTALLATION AND CONNECTION



This section contains the instructions necessary for correct installation of the GILOGIK II into the machine control panel or the host system and for correct connection of the system power supply, inputs, outputs and interfaces.



Before proceeding with installation read the following warnings carefully!
Remember that lack of observation of these warnings could lead to problems of electrical safety and electromagnetic compatibility, as well as invalidating the warranty.

Qualified staff

the installation and use of the system and components are only reserved at qualified staff.

Conform use

the system and relative components are usable exclusively to the use previewed in the manual
 In order to guarantee a correct and sure operation are indispensable that the product comes transported, stored correctly, installed, and controlled second the previewed modalities.
 Suitable for use in pollution degree 2 environment.
 Open type equipment.

Notes Concerning Electrical Safety and Electromagnetic Compatibility:

- **CE MARKING: EMC Conformity (electromagnetic compatibility)** in accordance with EEC Directive 2004/108/CE. The GILOGIK II system is mainly designed to operate in industrial environments, installed on the switchboards or control panels of productive process machines or plants. Norm of applicable product EN 61131-2. The Declaration of conformity is available on GEF RAN web: www.gefran.com
- UL listed standard: UL508 file E198546

BT Conformity (low tension)

in accordance with Directive LVD 2006/95/CE.
 Advice for Correct Installation for EMC

Inputs and outputs connection

- The externally connected circuits must be doubly isolated.
- To connect the analogue inputs the following is necessary:
 - physically separate the input cables from those of the power supply, the outputs and the power connections.
 - use woven and screened cables, with the screen earthed in one point only.

GEFRAN S.p.A. declines all responsibility for any damage to persons or property caused by tampering, neglect, improper use or any use which does not conform to the characteristics of the controller and to the indications given in these Instructions for Use.



3 • TECHNICAL DATA

- 3 encoder and counters inputs at 32 bit
- inputs for Differential, Push-Pull, Single Ended, Open Collector encoder, limiter
- channels are independently configurable.
- filter programmable via software at 20KHz or 400KHz.
- 8..32 VDC inputs, 25 mA maximum
- input isolation >2KV
- overvoltage on inputs for 1ms max. 1kV
- Power supply: via R-BUS(x) 3.3V backplane
- For UL: supply with class 2 device

Diagnostics

- Yellow LED presence of 24V external power supplies
- Red LED Interrupt on
- Red Fail LED, module error

Encoders power supply

24VDC \pm 25% 500mA max.(*) external (fed to front terminals). Power supply is internally distributed to the 3 channels and is configurable at +5V or 24VDC from outside.

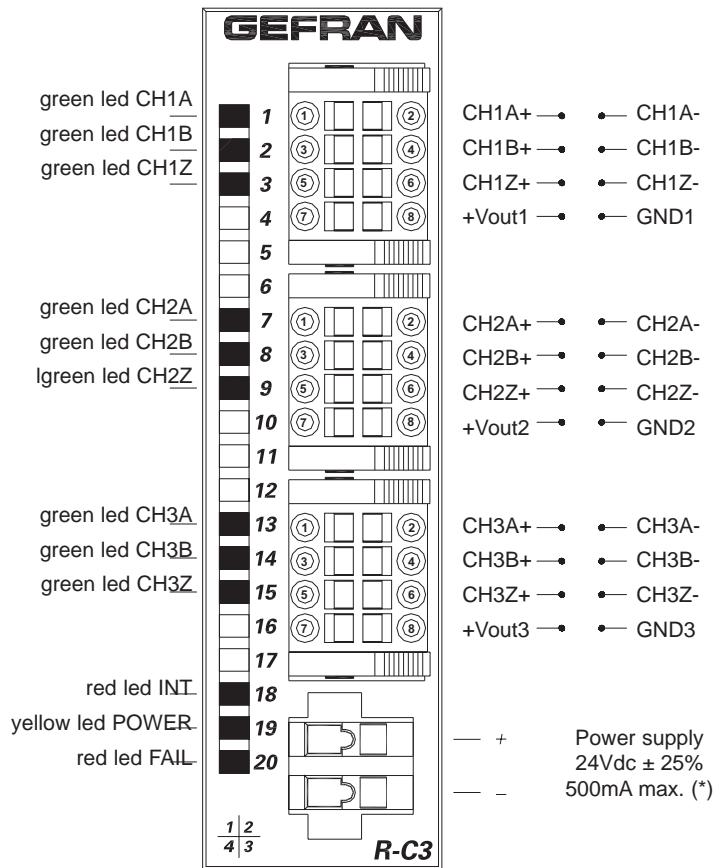
MECHANICAL DATA

Dimensions: 92x90x25,4mm
 Weight: 120 g. max
 Attachment: snaps onto R-BUS(x)
 Protection level: IP20
 3 connectors: front 8 pin female with spring-mounted lock

AMBIENT CONDITIONS

Working temperature: 0...50°C
Storage Temperature: -20...70°C
Humidity: max. 90% Rh not condensing
For UL: Maximum surrounding air temperature 50°C

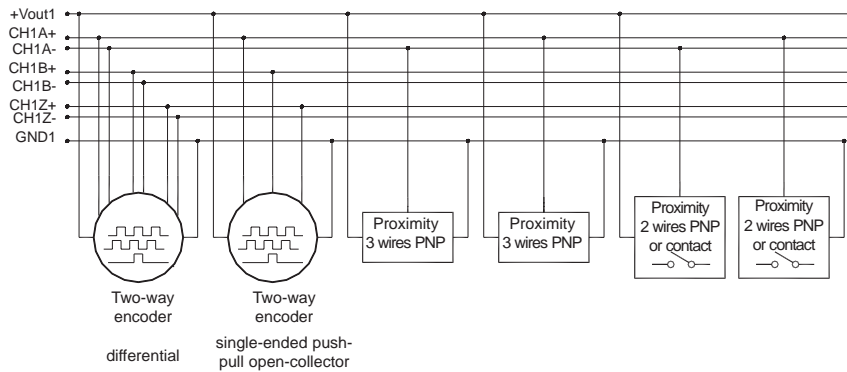
4 • CONNECTIONS



SUPPLY: 24Vdc ± 25%, 500mA max, Use cables with 0.5 mm² max. Do not apply a lug (*)

INPUTS: Use cables with 0.5 mm² cross-section. Do not apply a lug.

(*) Power supply can drop to 8VDC for specific encoder type



Use CHA input for one-way encoder

Electrical connections to channels CH2 and CH3 follow the same diagram as channel CH1 above.

Positive polarization (1 logic) of an input



Example:
to choose forward count if counter function is used.

Polarizzazione negativa (0 logico) di un ingresso



Example:
to choose reverse count if counter function is used.