



INSTALLATION AND OPERATION MANUAL

cod. 80124C / Edit 04 - 08/09 - ENG

1 • MAIN FEATURES

- 16 digital inputs 24 Vdc \pm 25%
- PNP optically isolated Inputs
- Filters selectable individually via software
- Protection against inversion of polarity
- Interrupt control for each input with front selectable via software
- Removable connector 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

- Control of 16 optically isolated digital inputs, 24Vdc \pm 25%
- Maximum input voltage: 32V 25mA
- Protection against inversion of polarity
- Input trigger maximum voltage for "0" (input OFF) = 12 Vdc
 minimum voltage for "1" (input ON) = 15 Vdc
- 100Hz and 5KHz input filters selectable via software
- Inputs independently programmable as system interrupt (via software)
- Isolation > 3kV
- Overvoltage on input for 1ms maximum 1kV
- Power supply: via R-BUS(x) 3.3V backplane
- For UL: supply with class 2 device

Diagnostics

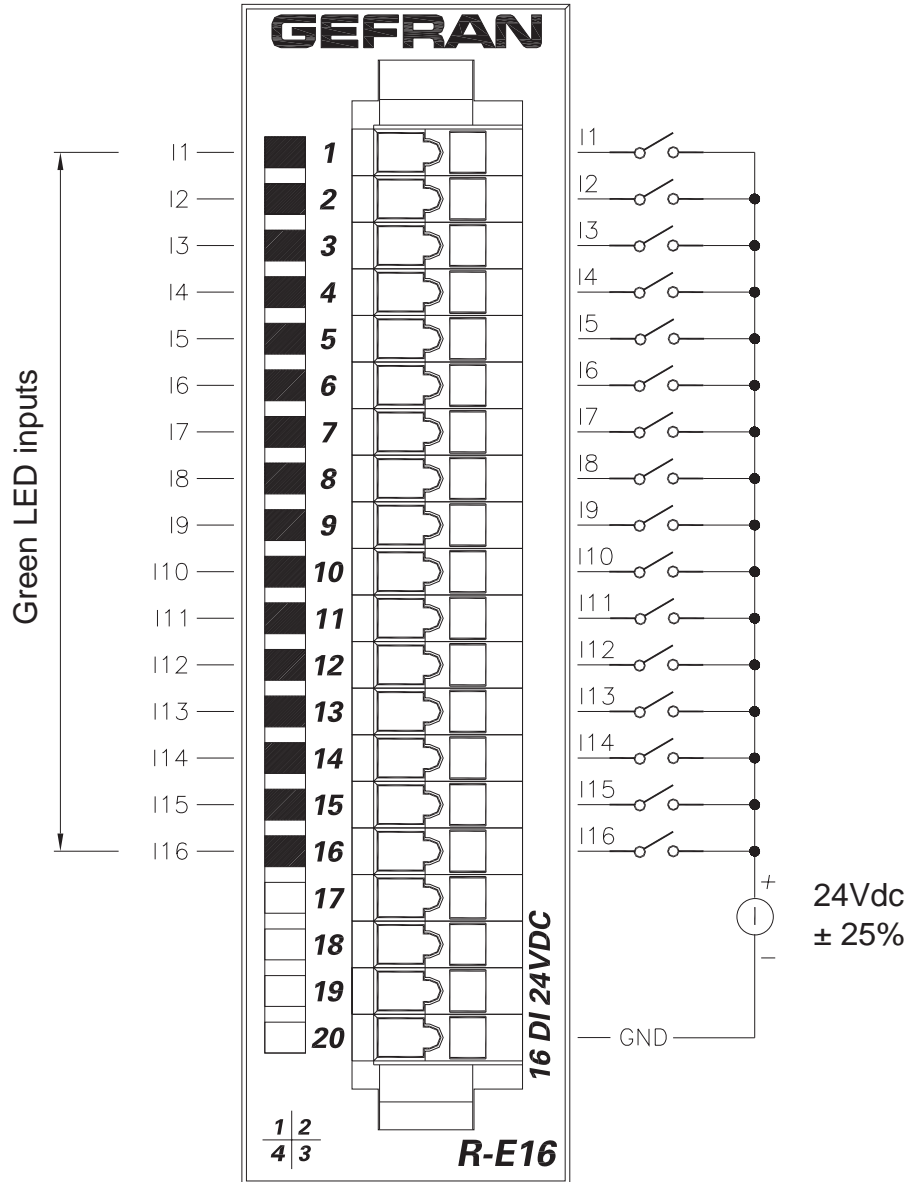
- Green state LED for each input

MECHANICAL DATA

Dimensions: 92x90x25,4mm
 Weight: 150g.
 Attachment: mechanically snaps onto R-BUS(x)
 Protection level: IP20
 Connector: front 20 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



Use unipolar cable with cross section 0.75... 1 mm max; do not attach lug.