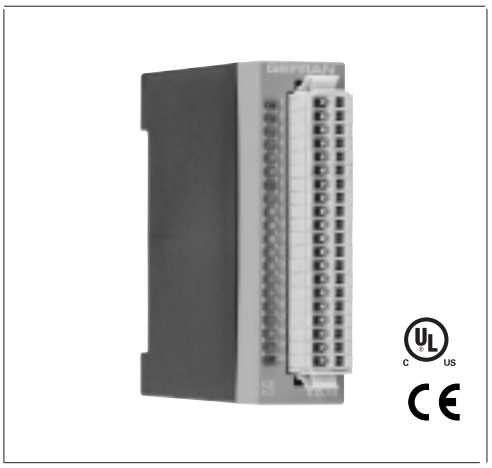
GEFRAN

R-EU16

MODULE WITH 8 DIGITAL INPUTS + 8 DIGITAL OUTPUTS



INSTALLATION AND OPERATION MANUAL

cod. **80121C** / Edit **04** - **08/09** - **ENG**

1 • MAIN FEATURES

- Installation on R-BUSxx backplane
- Eight 24VDC ± 25% digital inputs
- Eight outputs 24VDC from 2A max.
- Short-circuit and overload protection on all outputs
- Diagnostic LEDs
- 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 GEFRAN 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

Inputs
- Controls 8 optically isolated 24VDC ± 25% digital inputs
- Maximum voltage of input: 32V 25mA max.
- 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)
- Overvoltage on input for 1ms max. 1KV

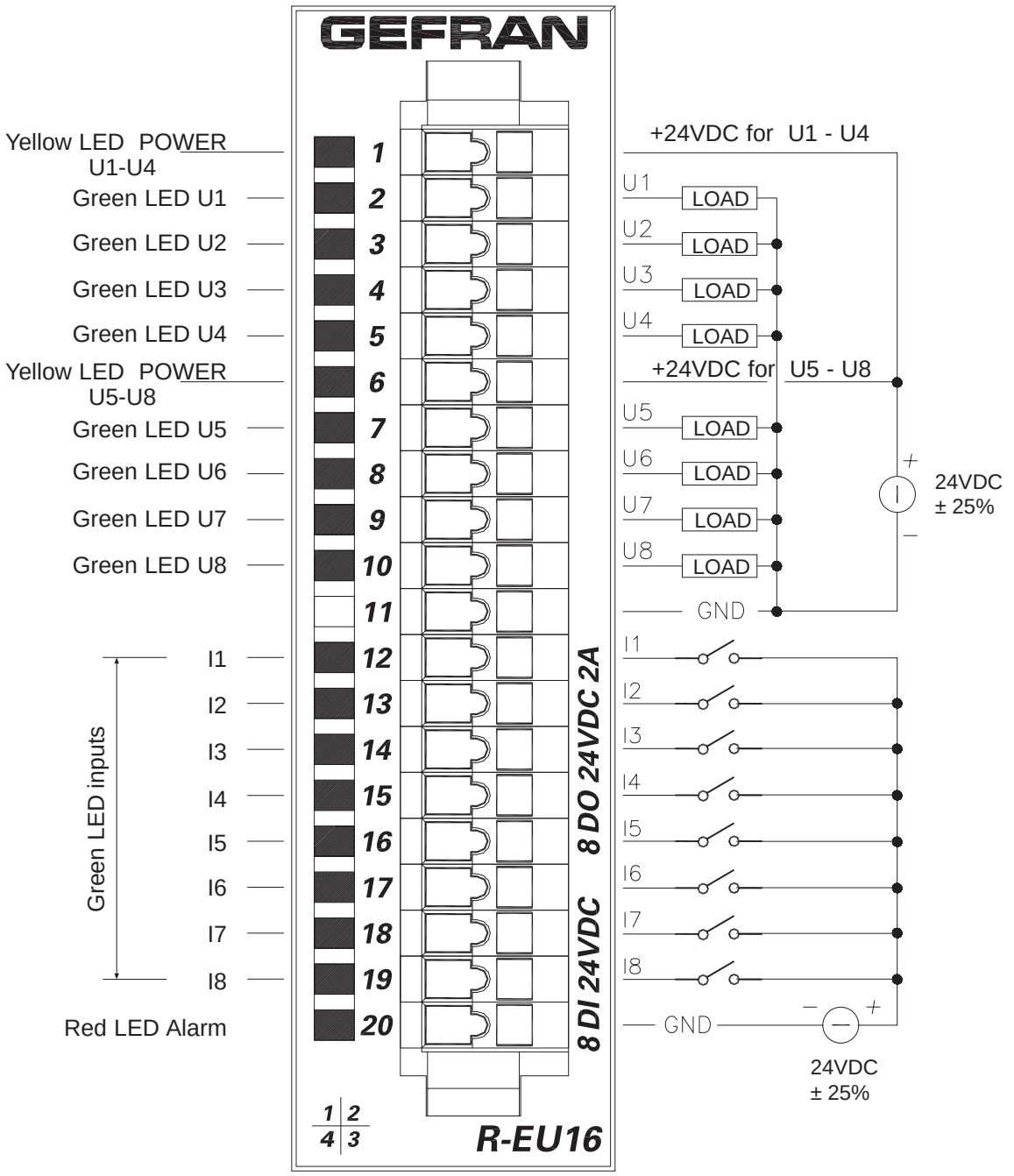
Outputs
- Controls 8 optically isolated 24VDC ± 25% digital outputs
- Organization: 2 groups of 4 outputs
- Output power supply: 24VDC ± 25%
- Maximum current for output: 2A
- Maximum current for group of 4 outputs: 5A
- Maximum current for 8 outputs: 8A
- Current protection for output: > 2,2A
- Overvoltage on output for 1ms max. 1KV
- Isolation: > 3KV
- Power supply via backplane R-BUS (x) 3.3V
- For UL: supply with class 2 device

Diagnostics
- Yellow LED for each power supply
- Green LED for each input
- Green LED for each output
- Red LED for output alarms

MECHANICAL DATA
Dimensions: 92x90x25,4mm
Weight: 130g. max.
Attachment: snaps onto R-BUS(x)
Protection level: IP20
Connector: front 20 pin

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



Inputs: 24VDC ± 25%, 25mA max., use unipolar cable with 0,75...1mm max. cross-section; do not apply lug
Power supply: 24VDC ± 25%, 8A max., use unipolar cable with 1,5mm max. cross-section; do not apply lug
Outputs: 24VDC ± 25%, 2A max., use unipolar cable with 1...1,5mm max. cross-section; do not apply lug