



## INSTALLATION AND OPERATION MANUAL

cod. 80120C / Edit 04 - 08/09 - ENG

### 1 • MAIN FEATURES

- 16 2A max. outputs
- Short-circuit and overload protection on all outputs
- Diagnostics LED for power supplies, outputs and alarm
- Power supply to 24 VDC  $\pm$  25% outputs
- 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](http://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

- Controls 16 optically isolated 24VDC digital outputs
- Organization: 1 group of 2 outputs  
 2 groups of 4 outputs
- Maximum voltage of output power supply 32V
- Maximum current for output 2A
- Maximum current for group of 8 outputs 8A
- Maximum current for group of 4 outputs 6A
- Maximum current for 16 outputs 15A
- Current protection for output > 2.2A
- Current protection for group of 8 outputs > 10 A
- Isolation > 2KV
- Overvoltage on output for 1ms max.1KV
- Power supply via backplane R-BUS(x) 3.3V
- For UL: supply with class 2 device

#### Diagnostics

- Yellow LED presence 24V power supply
- Green LED for each output
- Red LED module in alarm

#### MECHANICAL DATA

Dimensions: 92x90x25,4mm  
 Weight: 120 g. max  
 Attachment: snaps onto R-BUS(x)  
 Protection level: IP20  
 Connector: front 20 pin

**AMBIENT CONDITIONS**

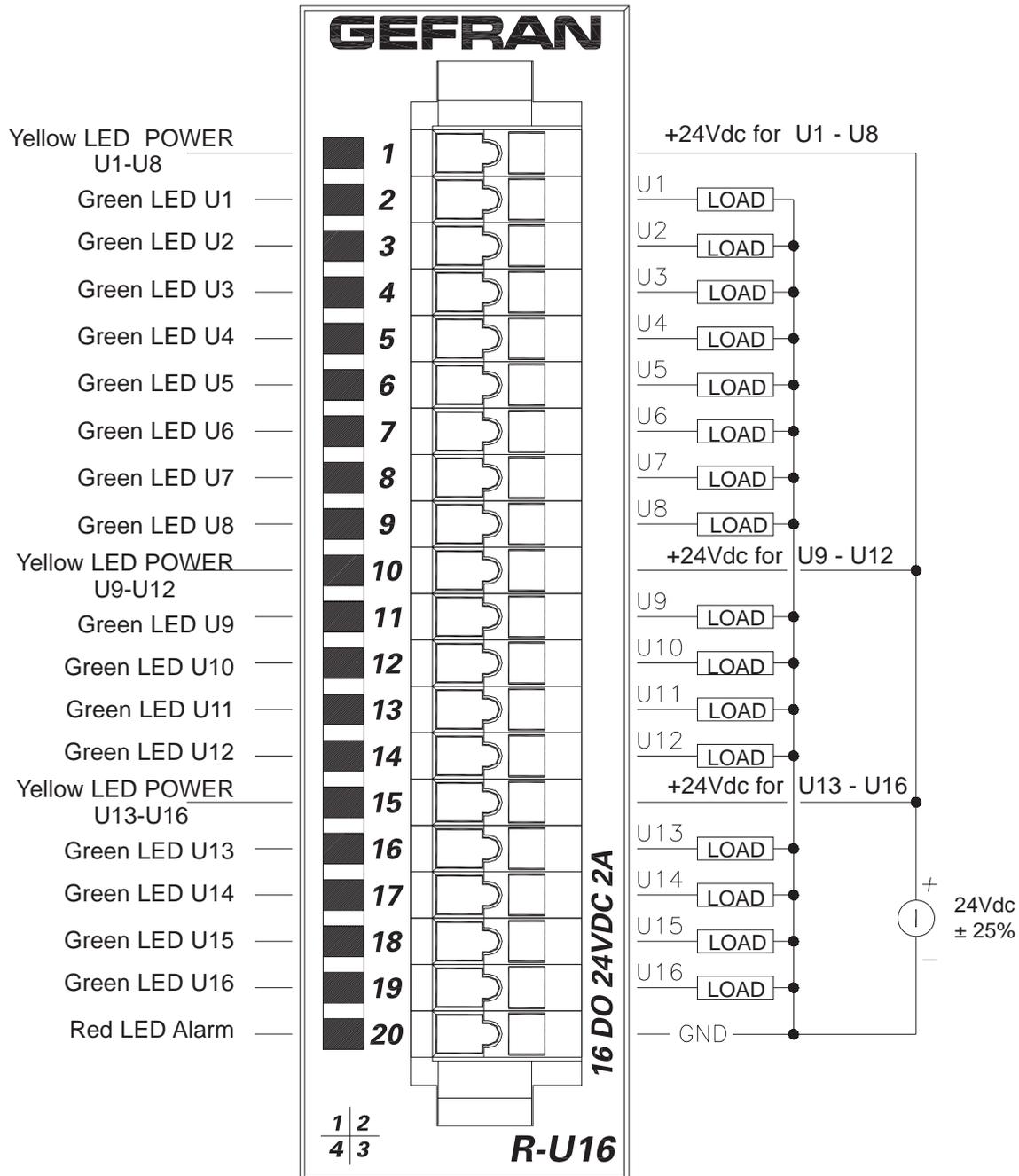
**Working temperature:** 0...50°C

**Storage temperature:** -20...70°C

**Humidity:** max. 90% Rh not condensing

**For UL:** Maximum surrounding air temperature 50°C

**4 • CONNECTIONS**



Front panel connections require:

- Power supplies 24Vdc ±25% 8A max.
- Outputs 24Vdc ±25% 2A max.

Use unipolar cable with 1.5 mm max. cross-section Do not apply lug.