



## INSTALLATION AND OPERATION MANUAL

cod. 80138 / Edit 01 - 11/09 - ENG

### 1 • MAIN FEATURES

- 16 digital inputs: 24Vdc  $\pm$  25%
- Optically-isolated inputs
- Protection against polarity inversion
- 16 outputs 24Vdc  $\pm$  25% from 2A max.
- Short-circuit and overload protection on all outputs
- Diagnostic LED for power supply, outputs and alarm
- Extractable 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)

- **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 16 optically isolated 24Vdc  $\pm$  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

#### OUTPUTS

- Controls 16 optically isolated 24Vdc  $\pm$  25% digital outputs
- Organization: 2 groups of 8 outputs
- Output power supply: 24Vdc  $\pm$  25%
- Maximum current for output: 2A
- Maximum current for group of 8 outputs: 3A
- Maximum current for 16 outputs: 6A

- Current protection for output: > 2,2A
- Current protection for group of 8 outputs: > 10A
- Isolation: > 2kV
- Overvoltage on output for 1ms max. 1KV
- Power supply via backplane  
 R-BUS (x) 3.3V

#### DIAGNOSTICS

- Yellow LED: presence of 24VDC external power supply
- Green 2-color LED digital input ON digital output OFF
- Yellow 2-color LED digital output ON digital input OFF
- Orange 2-color LED (green + yellow) digital output ON and digital input ON
- Red LED: module in alarm.

**MECHANICAL DATA**

Dimensions: 92x90x25,4mm

Weight: 120g.

Attachment: snaps onto R-BUS(x)

Protection level: IP20

Connector: 36 pin female with spring lock

**AMBIENT CONDITIONS**

Working temperature: 0...50°C

Storage temperature: -20...70°C

Humidity: max. 90% Ur not condensing

**4 • CONNECTIONS**

Inputs: 24Vdc ±25%, 25mA max., use unipolar cable with 0,75...1mm max.; do not apply lug  
 Output power supply: 24Vdc ±25%, 8A max., use unipolar cable with 1mm max.; do not apply lug  
 Outputs: 24Vdc ±25%, 2A max., use unipolar cable with 1mm max.; do not apply lug

