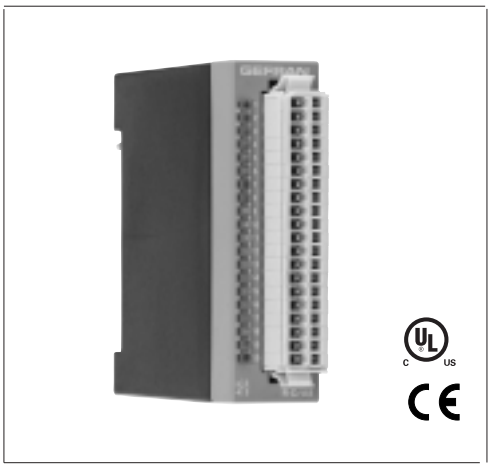
GEFRAN

R-D/A4, R-D/A8, R-D/A16

4, 8, 16 ANALOG OUTPUTS ± 10V



INSTALLATION AND OPERATION MANUAL

cod. **80128C** / Edit **04** - **08/09** - **ENG**

1 • MAIN FEATURES

- **R-D/A4** 4 analog outputs at 16 bit output ±10V
- **R-D/A8** 8 analog outputs at 16 bit output ±10V
- **R-D/A16** 16 analog outputs at 16 bit output ±10V
- Diagnostics of outputs
- Power supplies and alarm diagnostics LED
- 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 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

Outputs
Analog outputs
±10V, 20mA max.
16 bit digital analog conversion
Settling time: 50µs max.
Output power supply 24Vdc ± 25% 500mA max
Synchronous outputs
Electronic protection against short-circuit and overload for each group of 4 channels: max 120ma
Linearity better than 0.5%
Output isolation : >2.0kV
Over-voltage on inputs for 1 ms: maximum 1kV
Power supply via backplane R-BUS(x) 3.3V
For UL: supply with class 2 device

Diagnostics
- Yellow LED presence 24V external power supplies
- Red LED: Alarm
- Green LED: RUN

MECHANICAL DATA
Dimensions: 92x90x25.4 mm
Weight: 120 g. max
Attachment: snaps onto R-BUS(x)
Protection level: IP20
20 pin connector with spring-mounted lock.

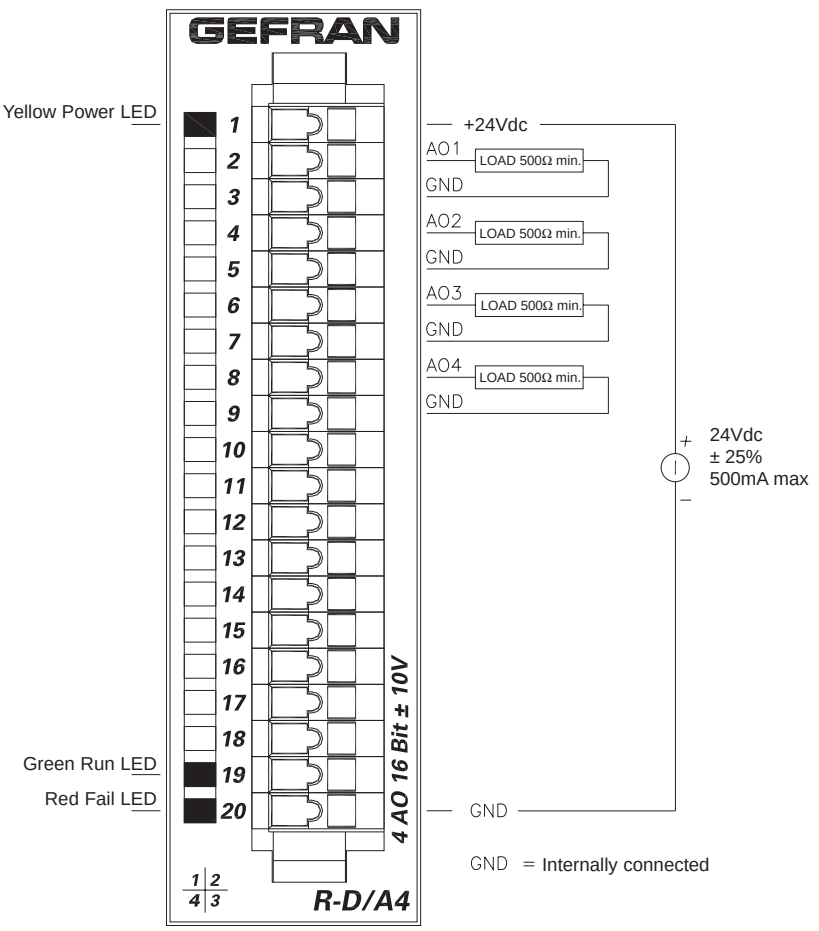
AMBIENT CONDITIONS
Working temperature: 0...50°C
Storage temperature: -20...70°C
Humidity: max. 90% Rh not condensing
For UL: Maximum surrounding air temperature 50°C

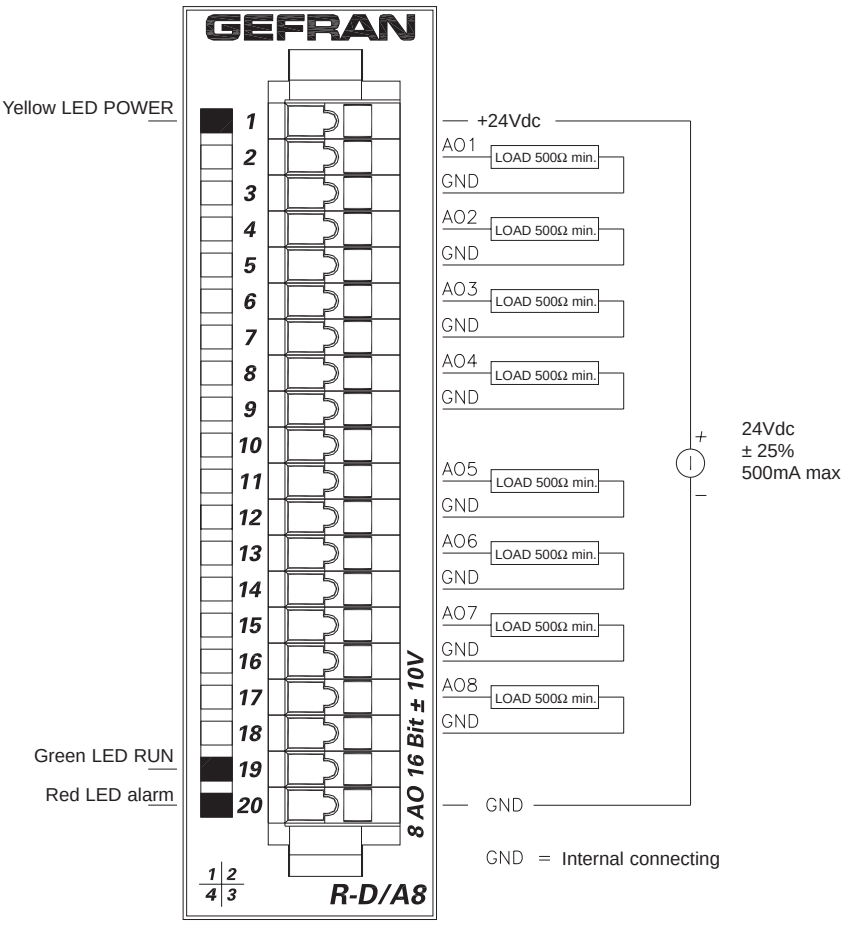
4 • INSTALLATION

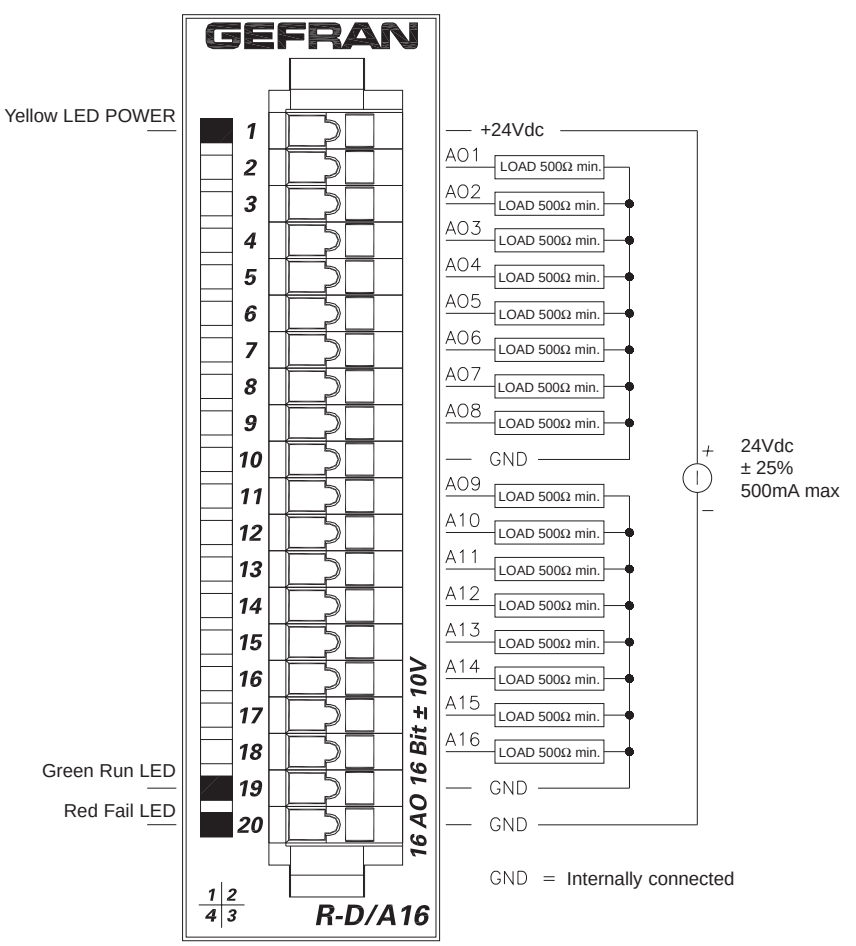
Front panel connections require:
Power supply 24 VDC ± 15% 500 mA max.. Use unipolar cable with 0.5 mm maximum cross-section.
Do not attach lug.
Bipolar analog outputs ±10V, use shielded cable with 0.5 mm maximum cross-section.
Do not attach lug.

Connect the shielding directly to the grounded plate and as close as possible to the module.

5 • CONNECTIONS







Important: the wiring for R-D/A16 is NOT compatible with R-D/A4 or R-D/A8 (different groupings)