GEFRAN

R-ETH100
BRIDGE ETHERNET 100 MODULE

Main applications

- *Plastics extrusion line and injection presses*
- *Thermoforming machines*
- *Rubber presses*
- *Packaging machines*
- *Packing machines*
- *Synthetic fiber polymerization and production plants*
- *Food processing plants*

Main features

- *Complete control of R-BUS(x) back plane*
- *Refresh of all installed I/Os in 100us (1 node)*
- *GDNet interface*
- *Power supply of backplane*
- *In Conformity with UL508*

PROFILE

R-ETH100 is a bridge module with Fast-Ethernet interface for GDNET.
It controls 100 Mbps communication with the operator terminal on one side and powers and controls the modules installed on the R-BUS(x) backplane on the other, acquiring data from all the I/Os every 100µs. It can control a maximum of 16 I/O modules.
A rotary switch on the front panel lets you assign the node number in the network (1-15). The communication port has an RJ45 connector and two signal LEDs (link and data).
R-ETH100 is powered at 24 VDC via an extractable connector.

TECHNICAL DATA

Power supply
- 24 VDC ±25% 2A max., powers the entire GILOGIK II system
- polarity inversion protection

Ethernet
- standard RJ45 connection
- 16 position rotary switch for node configuration:
  - 0: not inserted in network, not configured
  - 1...F selection node 1...15

Diagnostics
- power supply on (yellow LED)
- module in run (green LED)
- module or system in alarm (red LED)
- yellow LINK led: network connected
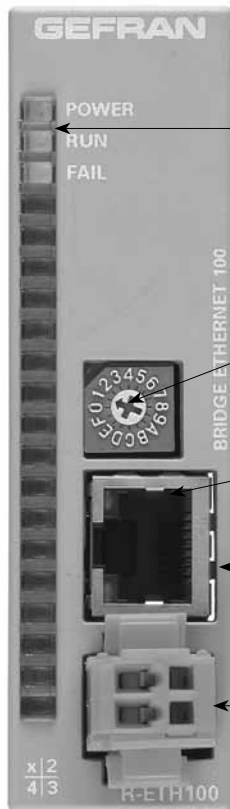- green DATA led: data transfer

MECHANICAL DATA
Dimensions: 92x90x25,4mm
Weigth: 150g.
Fixing: snaps onto R-BUS(x)
Protection level: IP20

AMBIENT CONDITIONS
Working Temperature: 0...50°C
Storage Temperature: -20...70°C
Humidity: max. 90% Rh not condensing

Yellow POWER LED = ON: power on
Green run LED + Red Fail LED = ON: reset system, boot
Green run LED = FLASHING (fast): system is in Run
Green run LED = FLASHING (slow): system is in configuration phase
Red Fail LED = ON: system error

Rotary switch to select the node number to be set during installation of the system and network.

Green DATA LED = FLASHING: system is transferring data
Yellow LINK LED: ON = system is connected to network

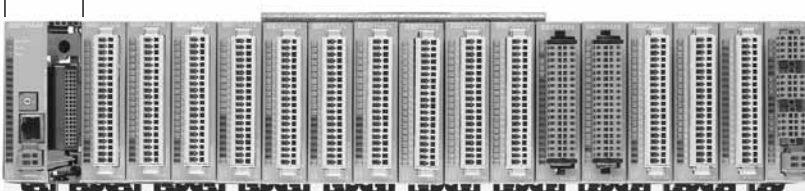Connection for Ethernet: standard with model RJ45 connector.

Power supply terminals: 24V ±25% 2A max.
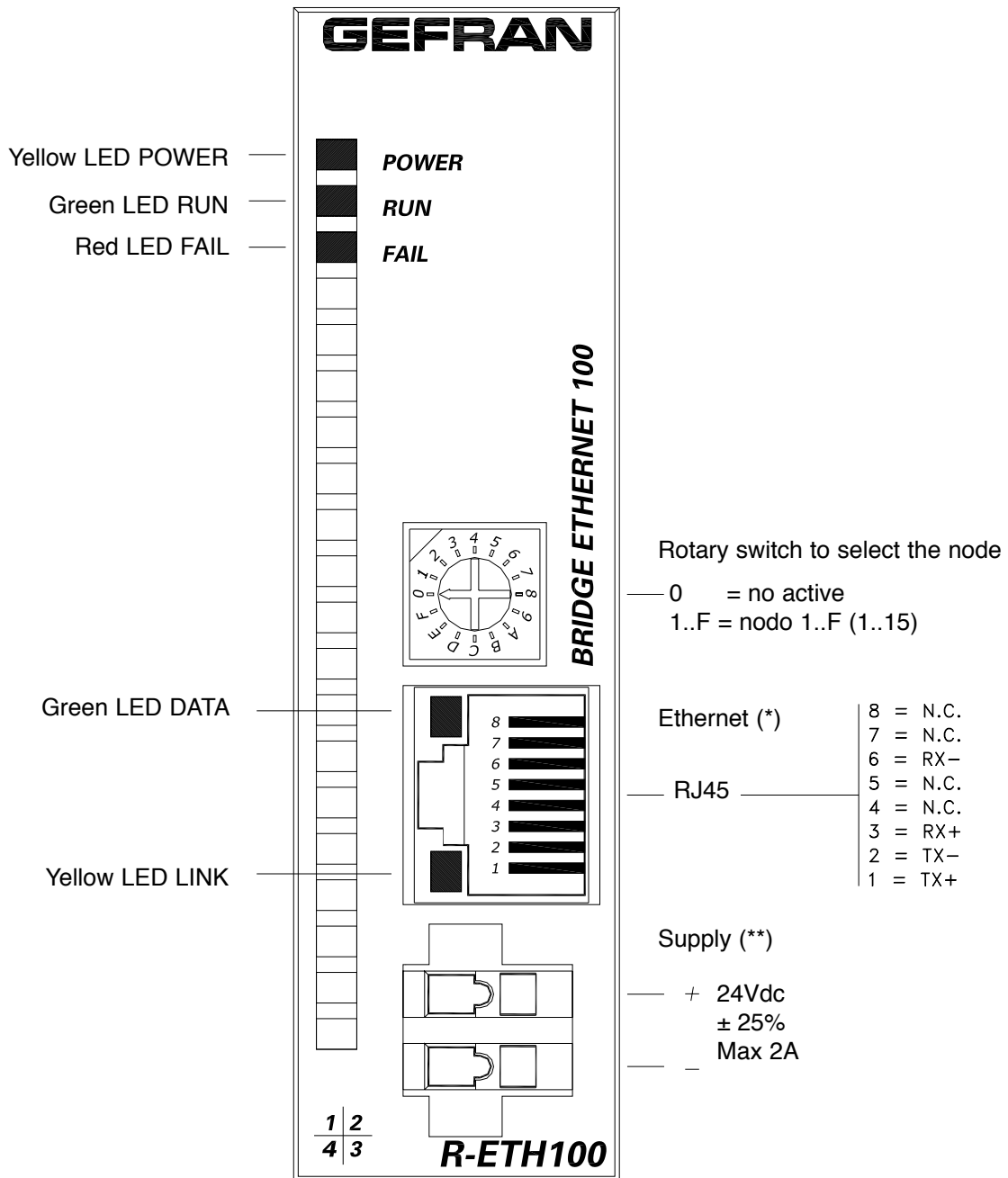
INSTALLATION AND CONNECTIONS

The module installs on R-BUS(x) in the first slot on the left if there is no R-SW5 module; in the second slot if there is an R-SW5 module.

(*)

(*) with the 18 position bus, positions 1, 2 are reserved to the R-ETH100 and R-SW5 modules.

Yellow LED POWER — POWER
Green LED RUN — RUN
Red LED FAIL — FAIL

BRIDGE ETHERNET 100

Rotary switch to select the node

0 = no active
1..F = nodo 1..F (1..15)

Green LED DATA

Yellow LED LINK

Ethernet (*)

RJ45

8 = N.C.
7 = N.C.
6 = RX−
5 = N.C.
4 = N.C.
3 = RX+
2 = TX−
1 = TX+

Supply (**)

+ 24Vdc
± 25%
Max 2A
−

1 | 2
4 | 3

R-ETH100

(*) Use standard category 6 cable according to TIA/EIA-568A

(**) Use unipolar cable with 1-1.5mm cross section Do not attach a lug

module code	**R-ETH100**	F026081	Code

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice

Conformity UL508 File no. E198546

CE The instrument conforms to the European Directives 2004/108/CE and 2006/95/CE with reference to the generic standards:
- **EN 61000-6-2** (immunity in industrial environments) - **EN 61000-6-3** (emission in residential environments) - **EN 61010-1** (safety)
- **EN 61161-2** (product standard). The Declaration of conformity is available on GEFRAN web: www.gefran.com