



#### Main applications

Connection of:

- Proximity sensors
- Control devices
- ON/OFF signals from electronic devices or from auxiliary contacts

Control of:

- Solid state actuators (solid state relays and power units)
- Electronic drives and devices
- Pneumatic and hydraulic actuators
- Electromechanical contactors
- Light signals

#### 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

#### PROFILE

The R-EU32 is a mixed module with 16 digital inputs and 16 digital outputs, used for completing system configuration with a single board and/or for saving space on the backplane.

Optically-isolated 24 VDC PNP inputs acquire logic signals from proximity sensors, drives, etc.

Each input is protected against polarity inversion.

Optically-isolated 24 VDC PNP outputs transmit signals and clearances to electronic devices, drive loads directly in VDC within limits of rated currents, or control loads of any kind via solid state relay, contactors, etc.

The outputs are divided into 2 groups of 8, with individual power supply and 3A maximum current. Total current for the module is 6A.

Each output is protected against short circuit, overload, and overtemperature, with current recirculation circuitry for inductive loads. The presence of the input and/or output is signaled by lighting of its 2-color LED.

R-EU32 installs on the RBUS(x) backplane, from which it is powered.

#### 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

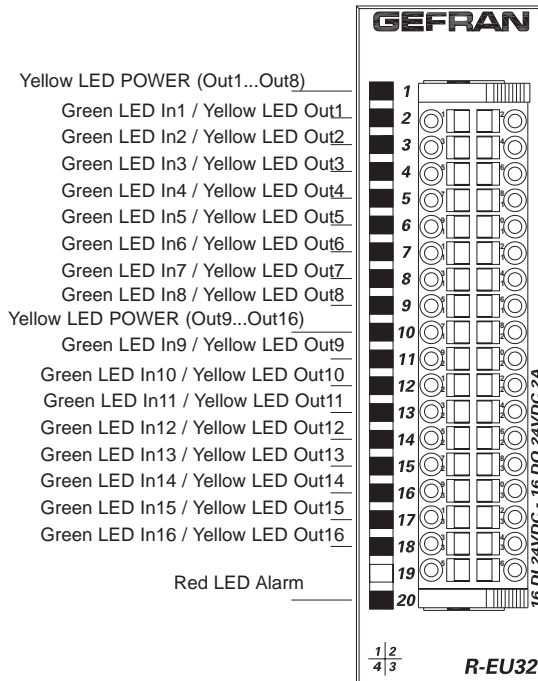
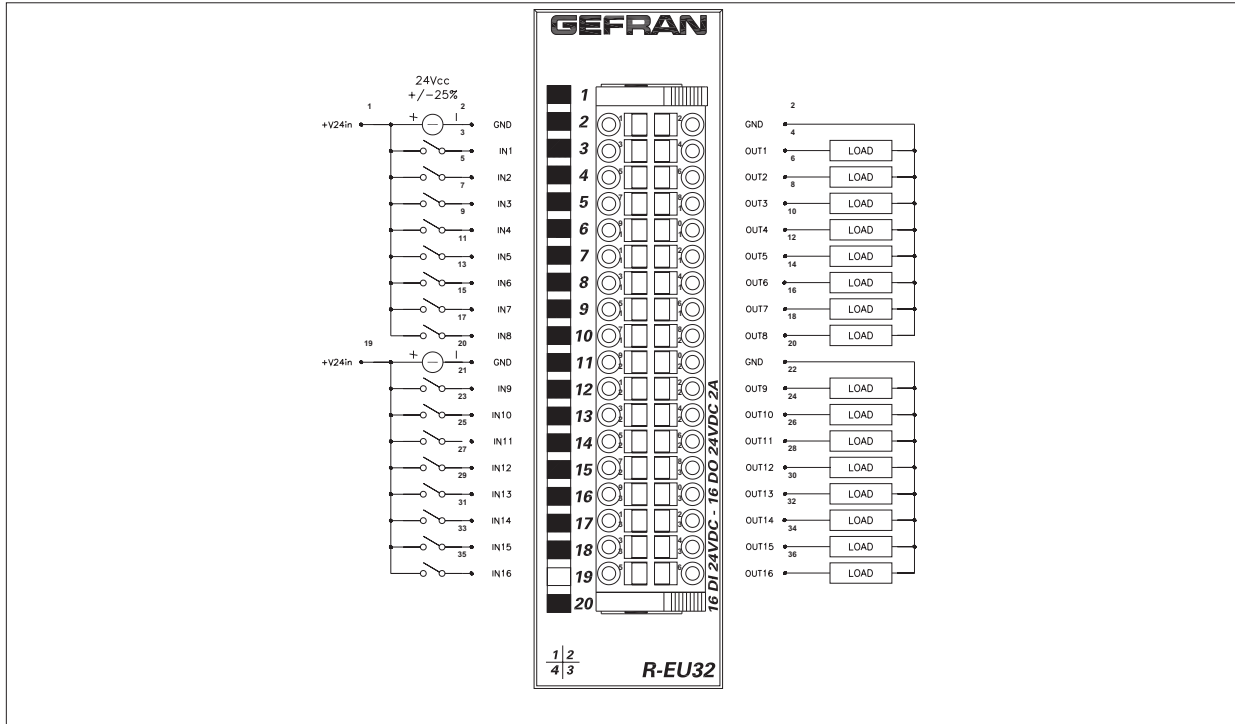
**Working temperature:** 0...50°C

**Storage temperature:** -20...70°C

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

## INSTALLATION AND CONNECTIONS

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



## ORDER CODE

module code **R-EU32** F043995 Code

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



In conformity to ECC 2004/108/CE (EMC) and 2006/95/CE (LVD) with reference to: **EN 61131-2** (product) **EN 61010-1** (safety).

**GEFRAN**

GEFRAN spa via Sebina, 74 - 25050 Provaglio d'Isèo (BS)  
 Tel. 03098881 - fax 0309839063 - Internet: <http://www.gefran.com>

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