



### Main applications

- Detection position/ speed

### Main features

- Inputs for devices with SSI interface
- Indication of position and speed
- Software configuration of inputs
- Diagnostic LEDs for power supplies and alarm
- Removable terminals supplied

### PROFILE

R-SSI4 is a module with 4 optoisolated SSI channels.

For each channel it is possible:

- program operating mode: frequency of the output SSI clock (from 10kHz to 2MHz), number of transmission bits (24, 25 or 32) and encoding of the input data (binary or Gray)

Each channel has:

- 2 terminals for the DATA signal
- 2 terminals for the CLOCK signal
- 2 terminals for sensor power supply
- 2 LEDs to signal the status of the inputs and outputs

Two 12-pole push-in connectors are available for wiring the 4 channels.

The module (powered externally by a special front connector) supplies power to the individual connectors.

The R-SSI4 is installed on the backplanes of the R-BUS(x) series, from which it receives its power supply.

### TECHNICAL DATA

- 4 inputs SSI 24, 25 and 32 bit
- the channels are independently configurable via software:
- SSI clock frequency from 10kHz to 2MHz
- number of bits of the data at 24, 25 and 32 bits
- data coding as binary and Gray
- diagnostics of connection interruption with the sensor that can be enabled or disabled
- input isolation >2KV
- overvoltage on inputs for 1ms max. 1kV
- Power supply: via R-BUS(x) 3.3V backplane

### Diagnostics

- Yellow LED presence of 24V external power supplies
- Green LEDs for CLOCK and DATA status
- Red Fail LED, module error

### Sensors power supply

8÷32Vcc ± 25% 500mA max. external (fed to front terminals).

Power supply is internally distributed to the 4 channels and is configurable at +5V or to the voltage applied externally.

### MECHANICAL DATA

Dimensions: 92x90x25,4mm

Weight: 120 g. max

Attachment: snaps onto R-BUS(x)

Protection level: IP20

### AMBIENT CONDITIONS

**Working temperature:** 0...50°C

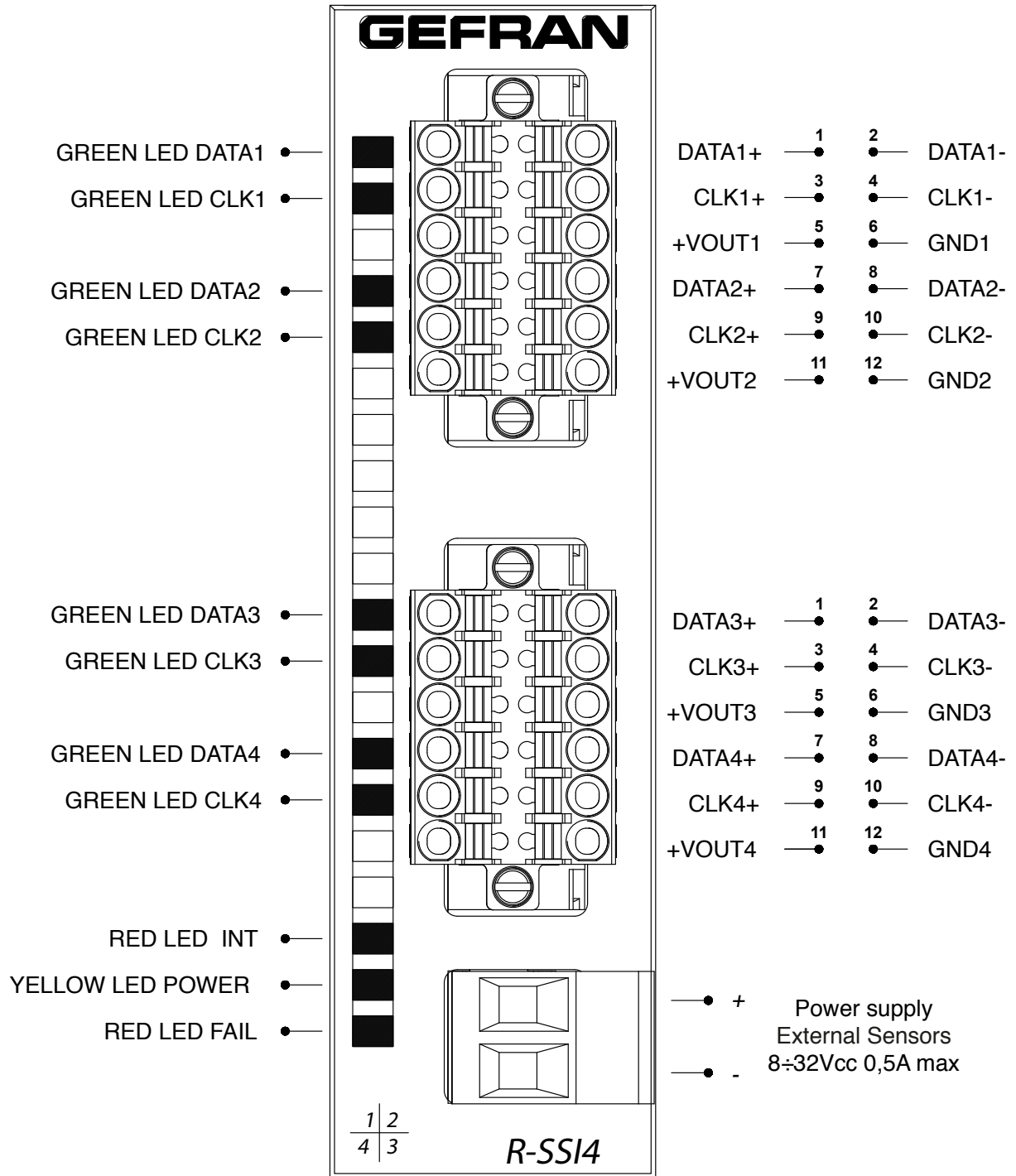
**Storage Temperature:** -20...70°C

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

**INSTALLATION AND CONNECTIONS**

**SUPPLY:** 8÷32Vcc ± 25% 500mA max, Use cables with 0.5 mm<sup>2</sup> max.

**CLOCK / DATA:** Use cables with 0.5 mm<sup>2</sup> cross-section. Do not apply a lug.



**ORDER CODE**

module code **R-SSI4** **F086538** Code

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Rispetto della Direttiva 2014/30/EU  
EN61131-2: Programmable controllers  
Part 2: Equipment requirements and tests