

## G3-E20

G-Mation G3 – 20 Digital Inputs

### USE AND INSTALLATION MANUAL

G3 E20 code F092700

code: 80651B - Ver 1.0 - 11-2025 - ENG





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# 1. PREFACE

## 1.1. Warnings and safety

Although all the information in this document has been carefully checked, Gefran S.p.A. cannot be held liable for the possible presence of errors, or for damage to persons or property due to improper use of this manual. Gefran S.p.A. also reserves the right to make changes to the content and form of this document and to the features of the devices it describes at any time without prior notice.

The devices described in this manual must be installed by qualified technicians, following current laws and regulations and in accordance with the instructions given in this manual. If the card is used in applications with risk of injury, or of damage to machinery or materials, it must be combined with auxiliary alarm devices. It is advisable to provide for the possibility of checking alarm activation also during normal operation.

Before interacting with the card, the operator must be adequately instructed in the system operation, emergency, diagnostics and maintenance procedures.

## 1.2. Typographical conventions used in the manual

Pay attention when the following symbols are found in the manual.



Indicates particularly important information relevant to correct product operation or safety, or provides instructions that must be strictly followed



Identifies an action that is possible / permitted



Highlights a risk condition for the installation technician or user due to hazardous voltage levels



Identifies an action that is NOT possible / NOT permitted

## 1.3. EtherCAT declaration



**EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.**

## 2. G-MATION G3 PLATFORM

### 2.1. System



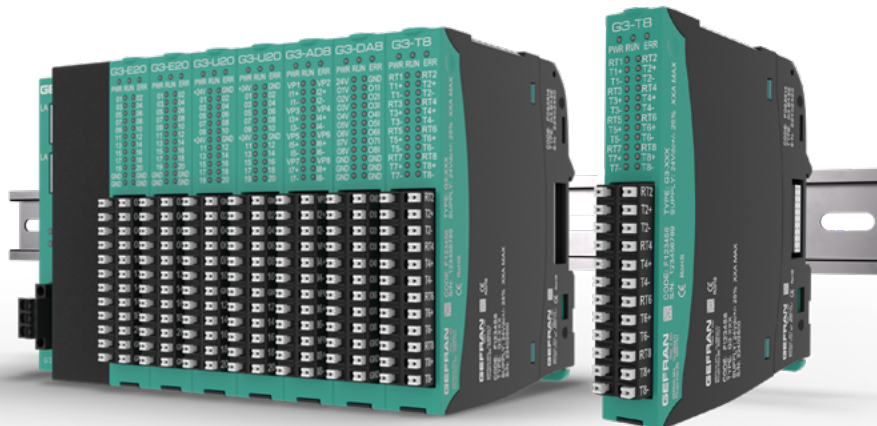
G-Motion G3 is a modular IO system based on EtherCAT technology. EtherCAT provides a maximum of 65535 addressable modules.

A G3 rack of I/Os is composed of the system coupler, G3-ECAT, with a number of I/O boards on the right side as desired according to system needs and up to a maximum of 20.

The G3-ECAT module provides power supply for 20 boards.

If a number of boards greater than 20 is necessary, the power supply module G3-PWR must be inserted between the 20nd and 21st boards.

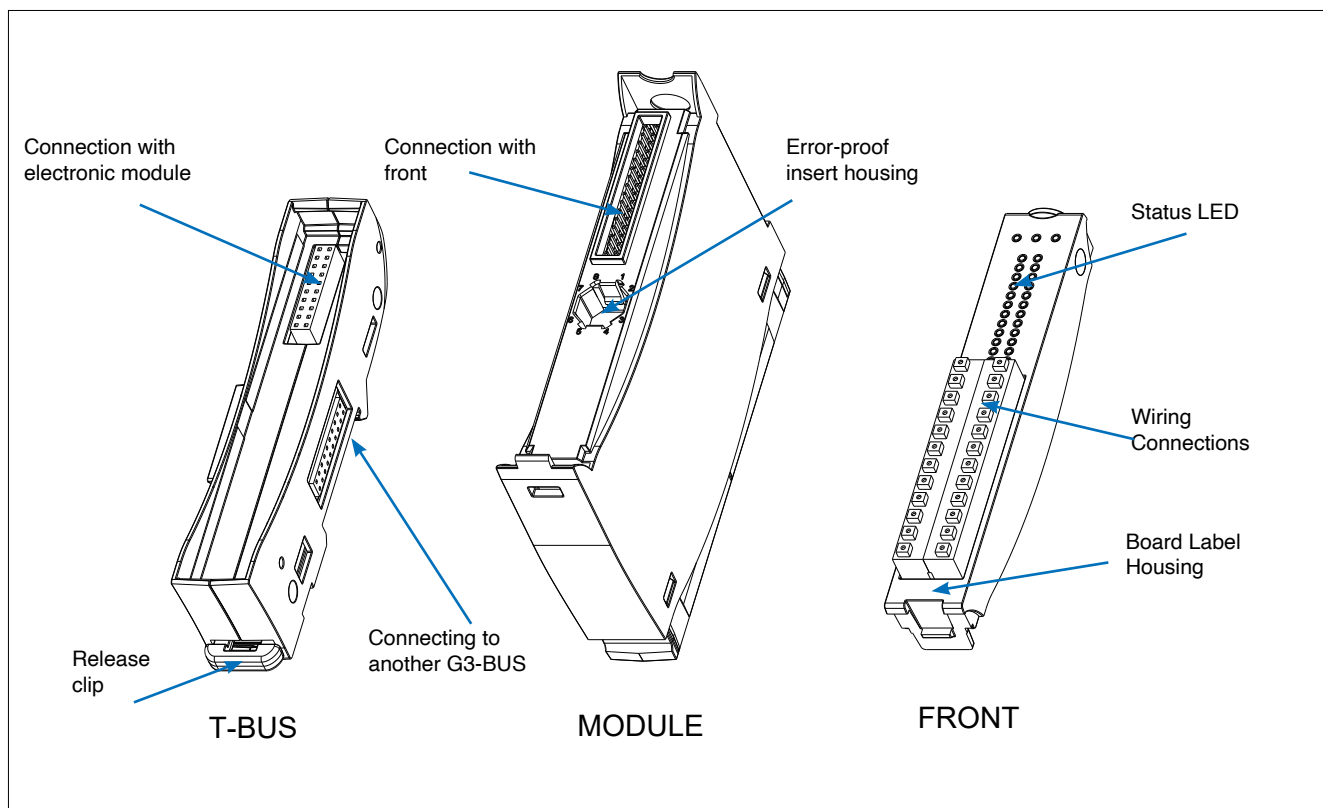
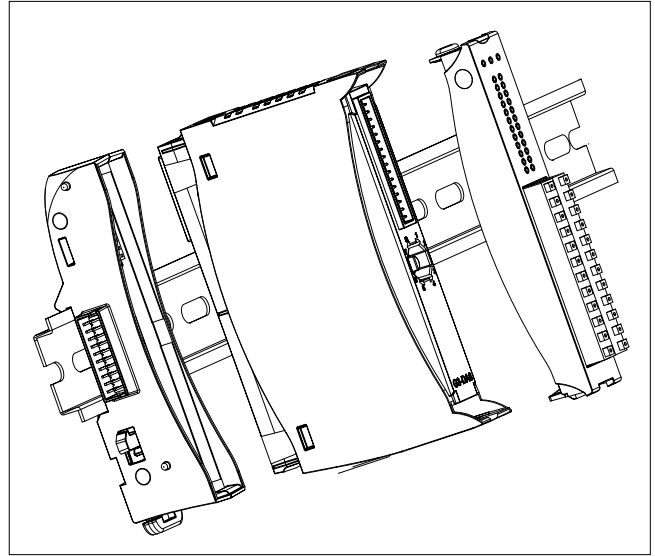
The boards are designed for coupling on a 35 mm DIN rail and the lateral coupling with the rack takes place by sliding to the left (refer to paragraph “2.6. DIN rail mounting” on page 13).



## 2.2. Board modularity

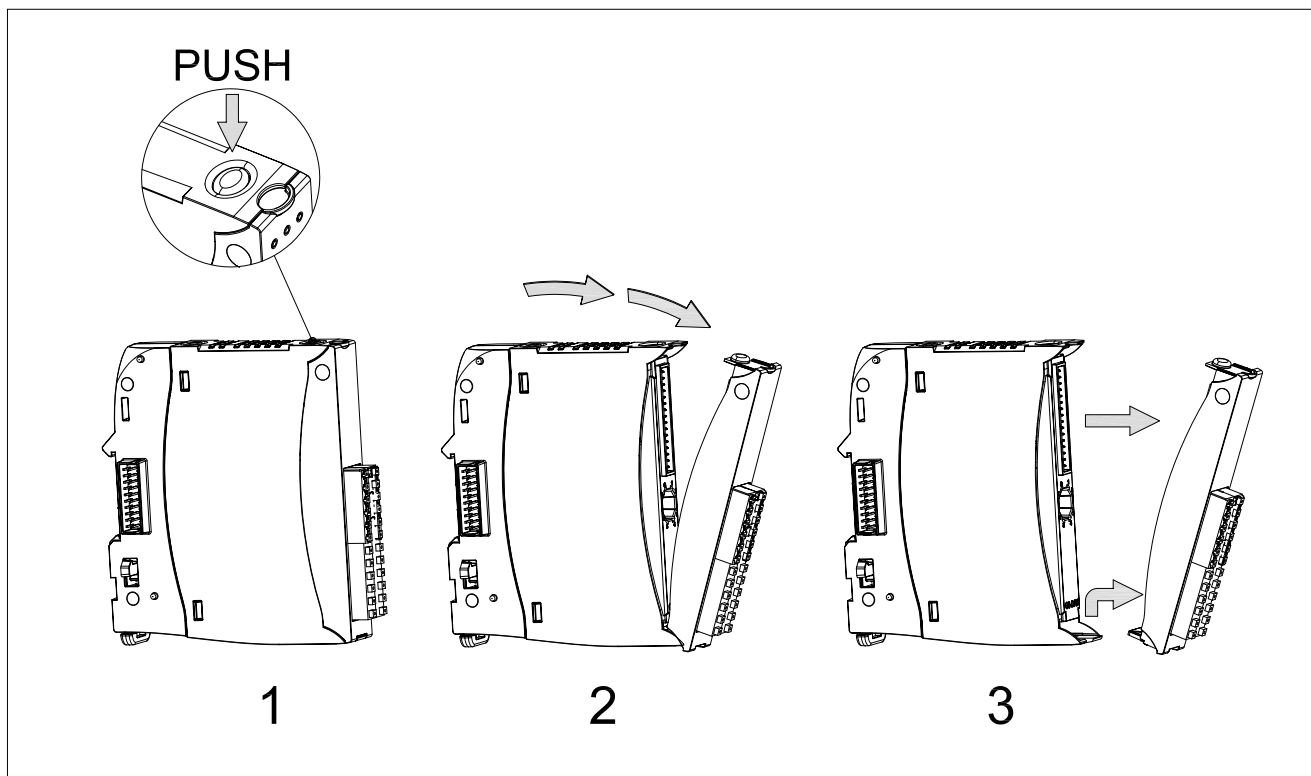
Each I/O board consists of three parts:

- **The base module:** it is the module that guarantees coupling with the din rail and bus transmission between one board and the next. It is called G3-BUS (F092614) and is common to all boards.
- **Electronics:** is the module that contains all the electronics dedicated to managing board I/Os. It is proprietary to each board.
- **The front:** it is the module that houses the push-in connector for the wiring and the front LEDs. It is proprietary to each board

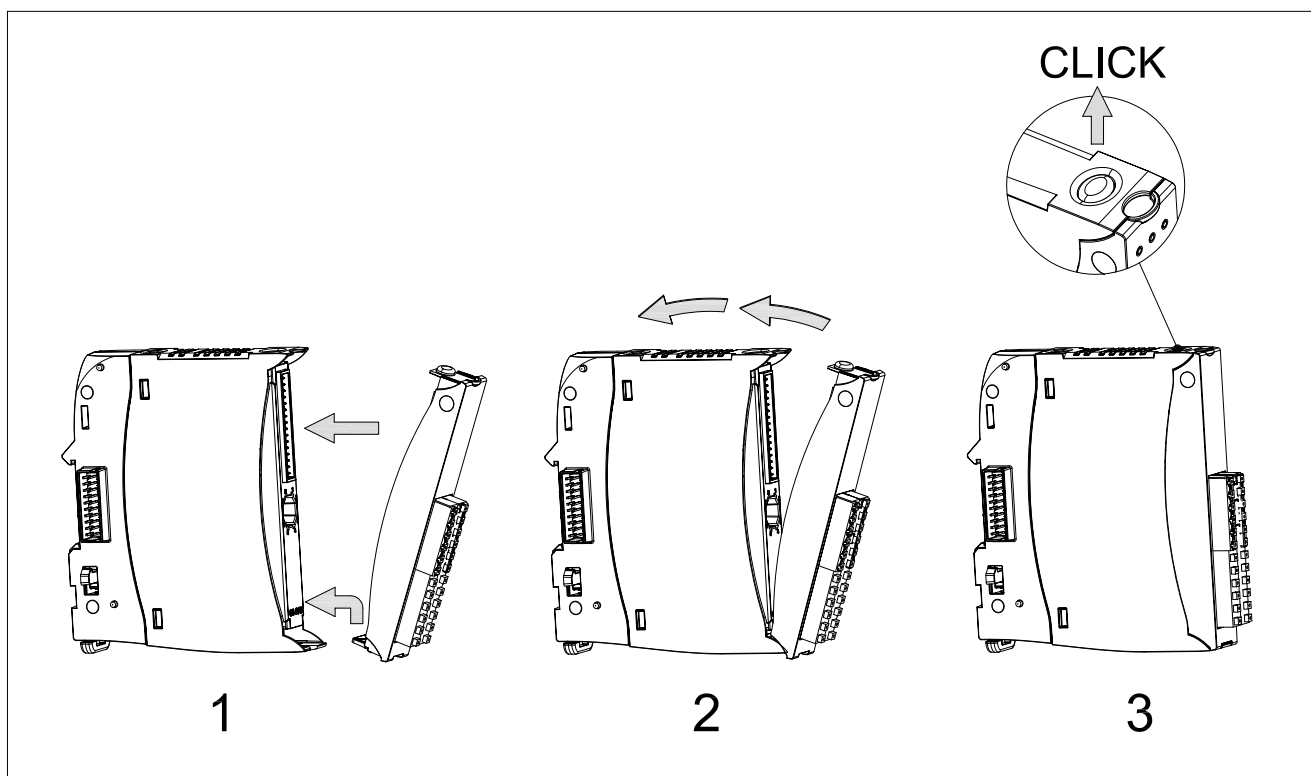


The coupling and uncoupling between the different parts is possible without the use of tools, using only your hands. The movement is constrained in such a way as to be easy and to prevent alignment errors that could compromise the connections.

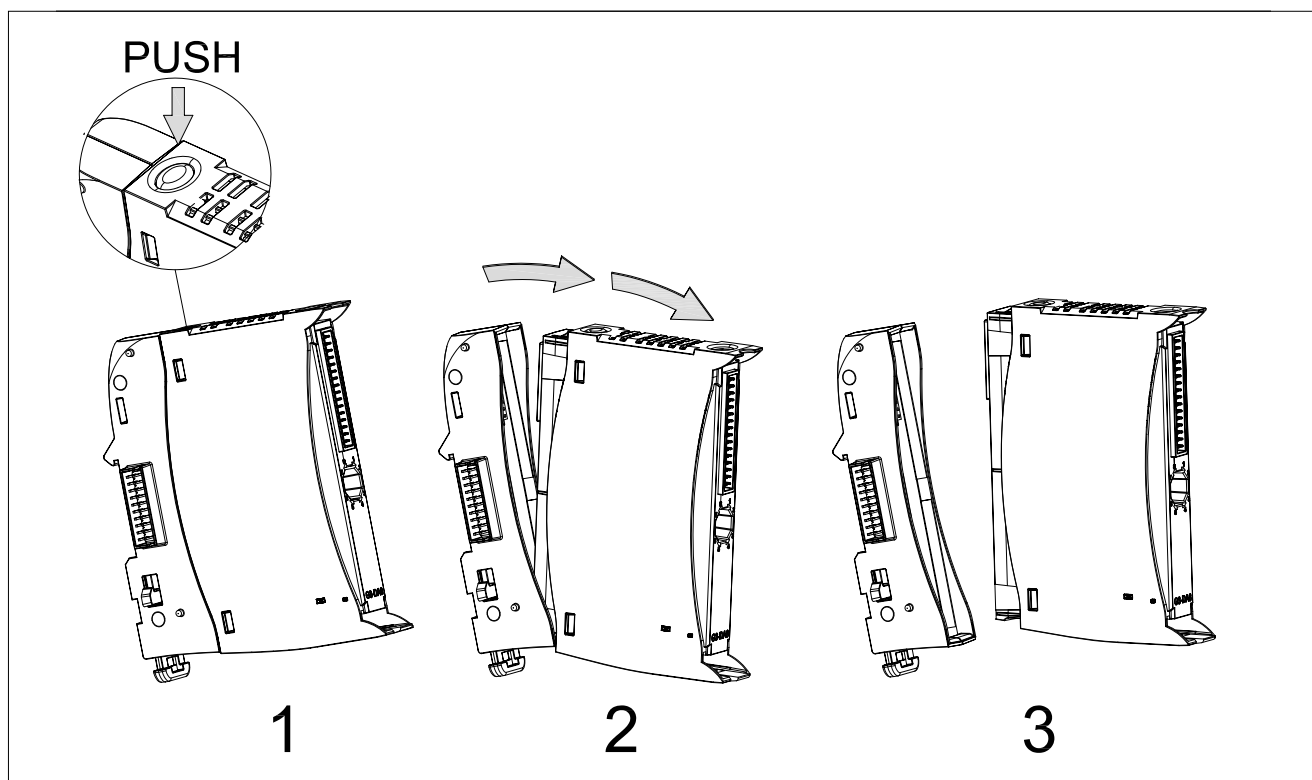
Press the upper button as shown in the figure and pull the board down in the indicated direction to remove the front module.



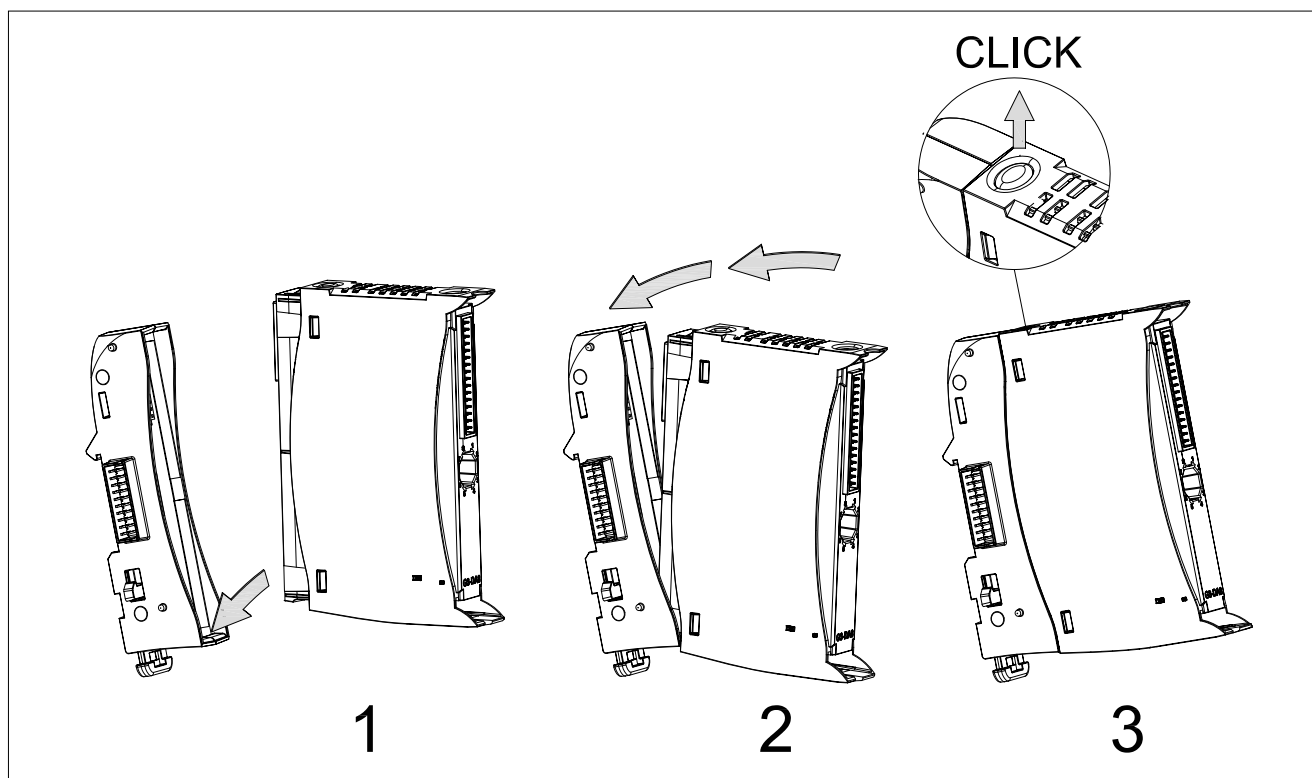
To re-couple the module, first place the lower part inside the constrained housing of the electronic part and then push the front until you feel the upper button couple.



The electronic part can be detached from the base both with the front connected and without. To release the electronic part press the upper button as shown in the figure and pull the board down in the indicated direction.



To re-couple the electronics, first place the bottom part inside the constrained housing of the base and then push the board until you feel the upper button couple.



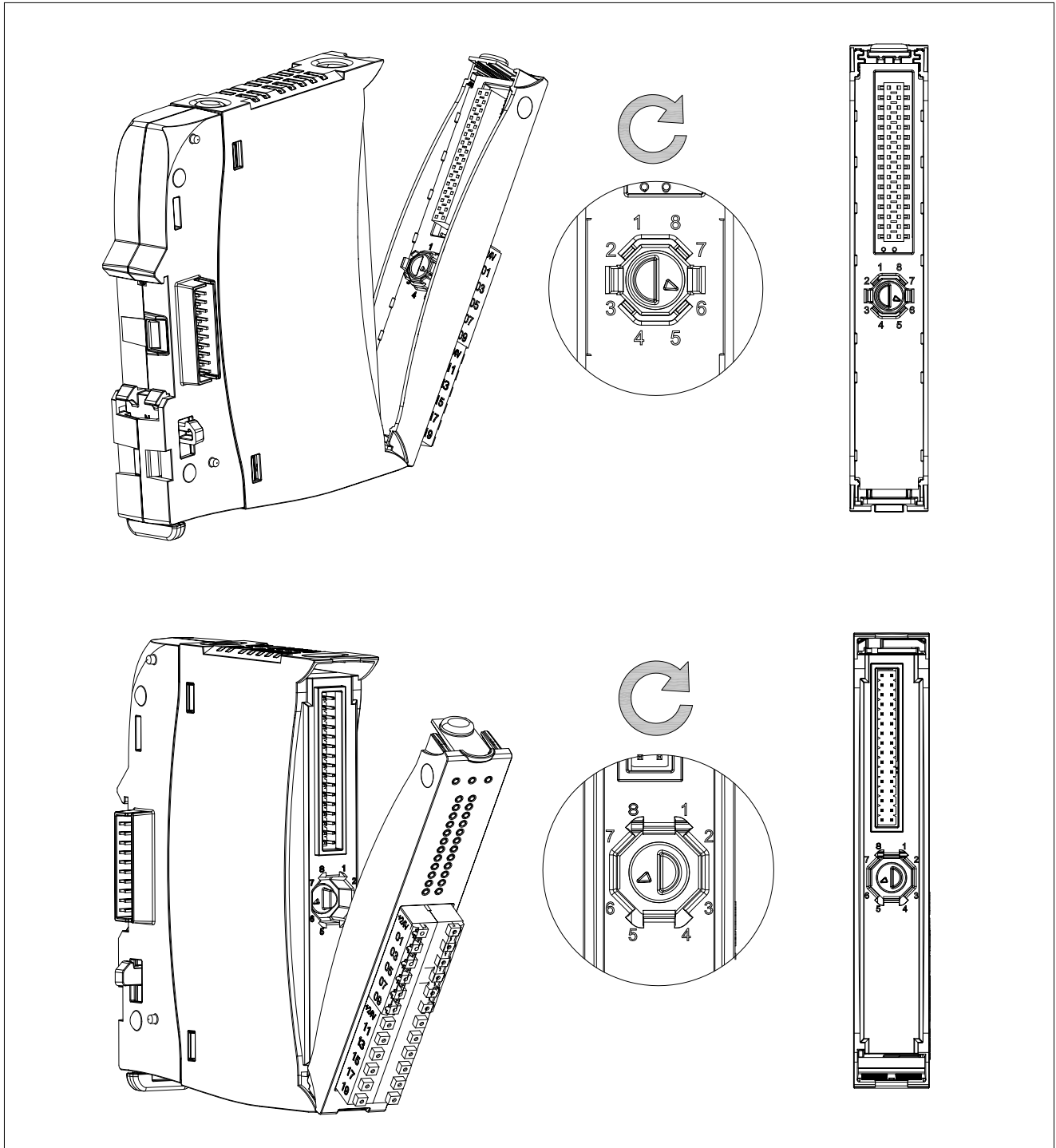
## 2.3. Front polarisation

A polarisation system is provided that allows you to associate a front to your board to avoid board and front positioning errors.

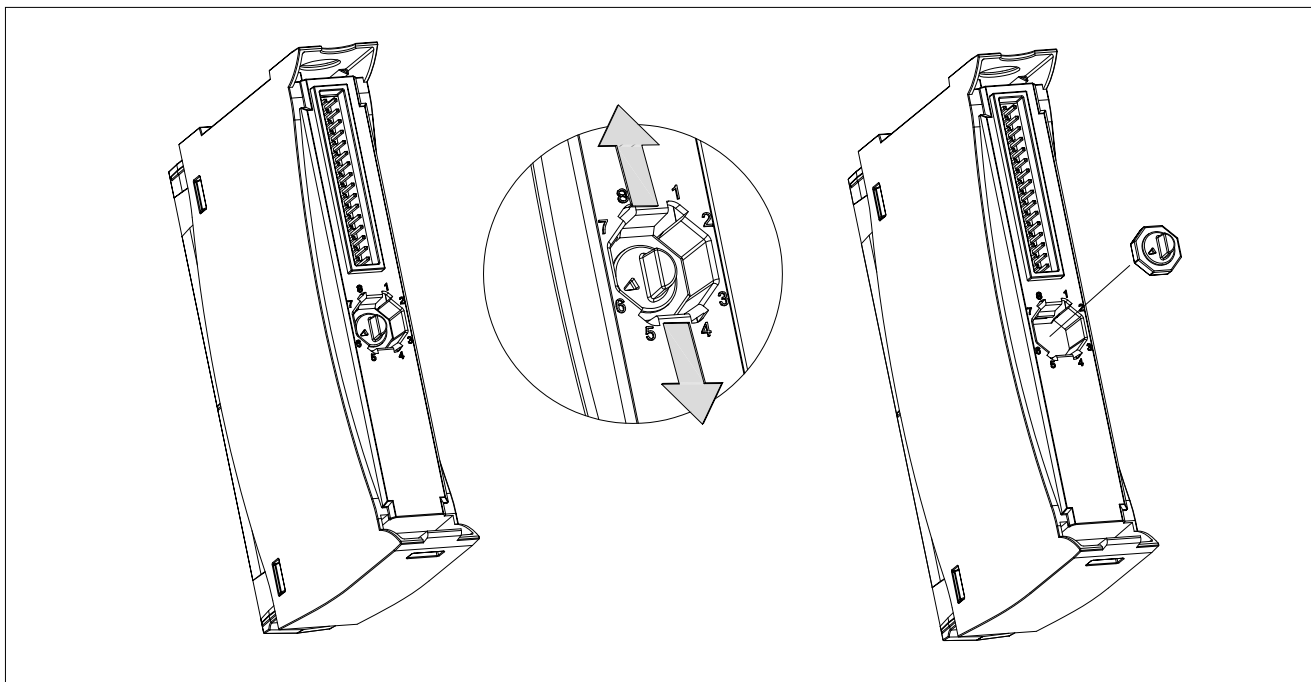
A kit of male-female coupled octagonal-shaped inserts may be provided as an accessory.

The figures on the insert are available in different versions so as to cover a wide range of combinations.

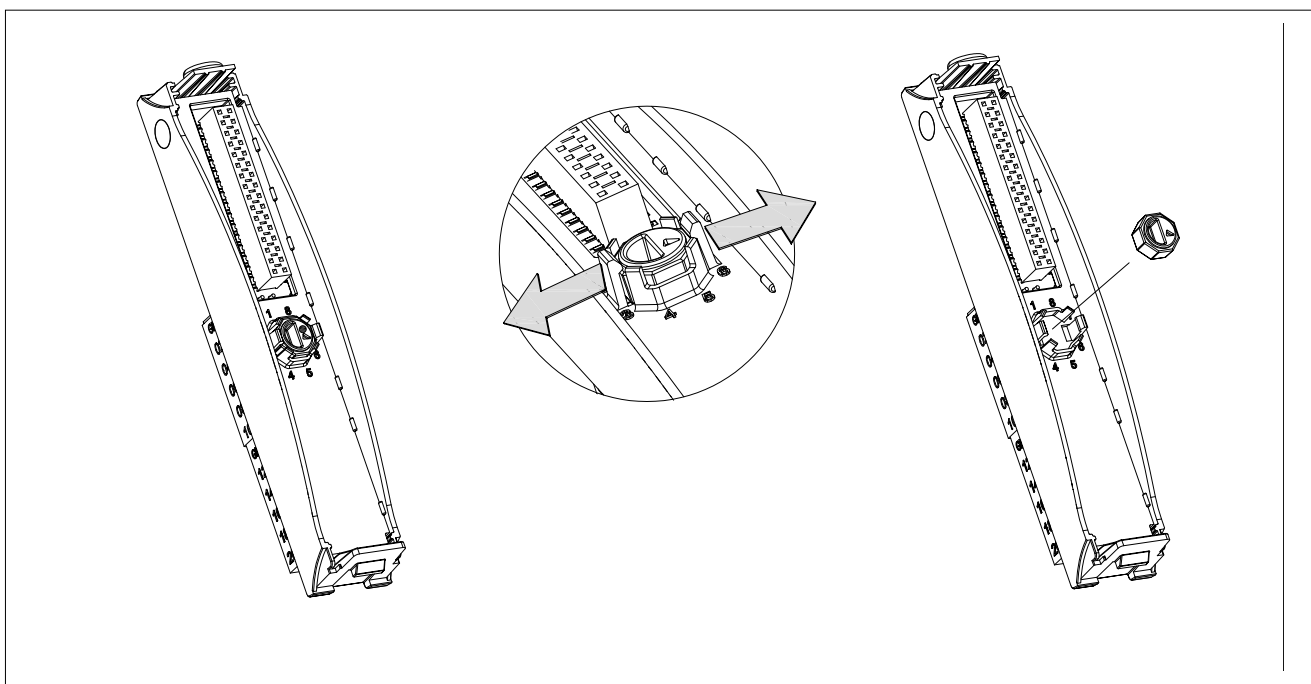
There is a housing for the male insert and one in the front for the female insert in the electronic part.



The insert must be mounted with the aid of tweezers and can be rotated in eight different positions. Proceed as shown in the figure by grasping the insert with tweezers to insert or remove the insert from the electronic board.



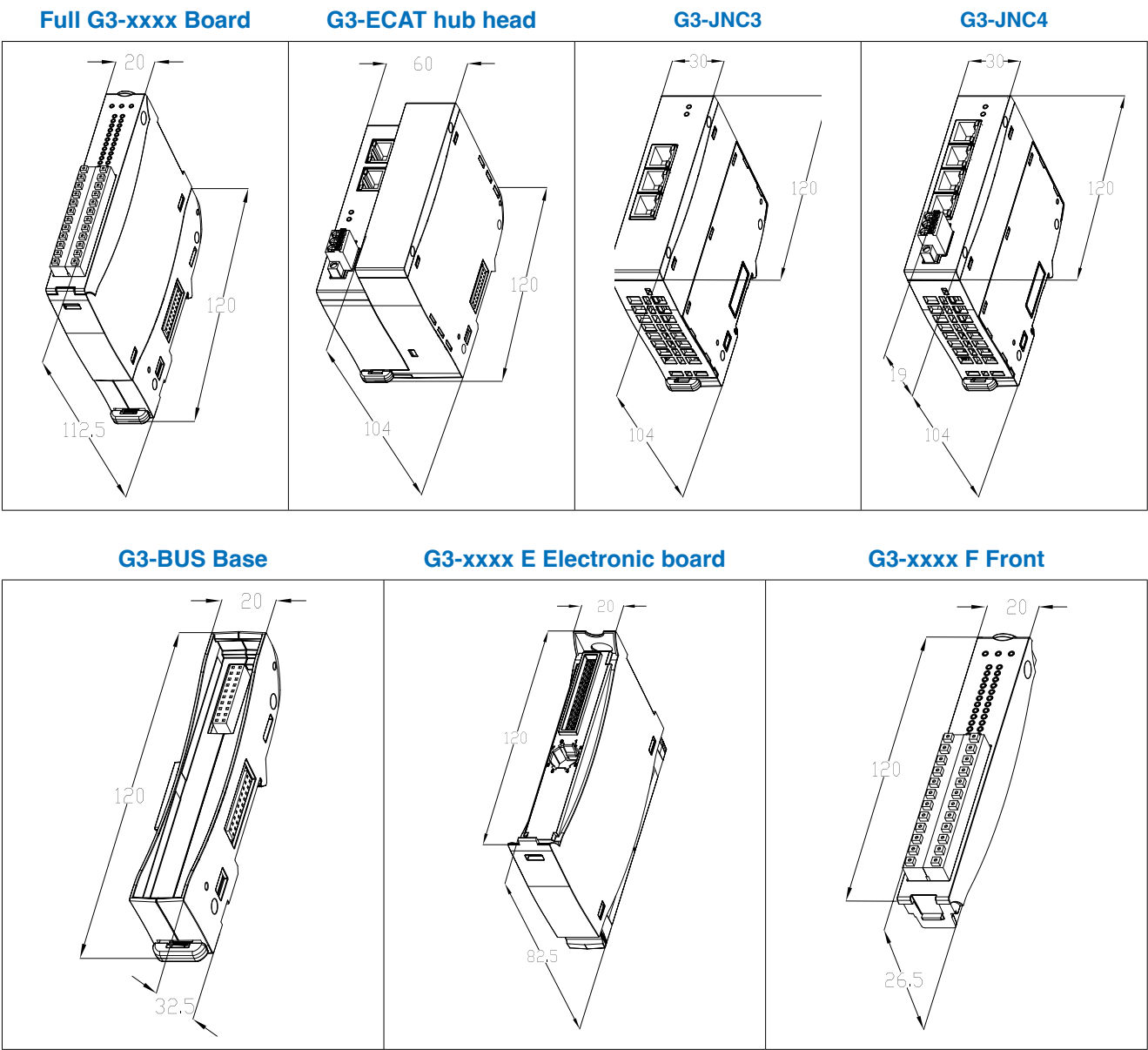
Proceed as shown in the figure by grasping the insert with tweezers to insert or remove the insert from the front module.



Once inserted, the inserts can be extracted and rotated as desired.

## 2.4. Mechanical dimensions

The mechanical dimensions of the product, without the DIN rail, may be seen in the image below.



## 2.5. Front connector wiring

The connector can be wired both with the front coupled with the module and with the front detached from the module. The front connector can be placed on a bench to facilitate wiring.

For wiring, both the use of NON terminated flexible electrical wire and flexible electrical wire terminated with a TIP are allowed.

Use unipolar flexible electric wire with maximum section of 1.50 mm<sup>2</sup> (AWG 16) with 8 - 9 mm strip length.

If a TIP is used, use a model with a section appropriate to the wire used and with a length of 8 - 9 mm.

To connect the wire **without TIP**:

press the button with a screwdriver insert the wire into the seat release the button.

To connect the wire **with TIP**:

push the tip directly into the seat

To disconnect the wire:

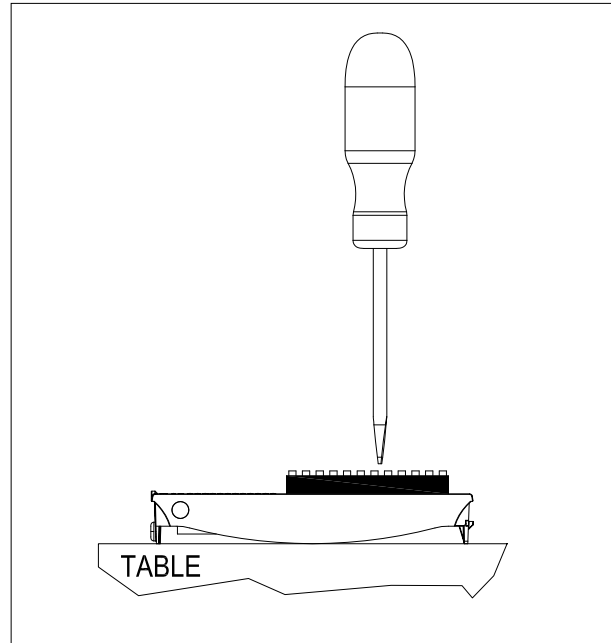
press the button with a screwdriver pull out the wire/tip  
release the button

A pressed flexible wire can be used as an alternative to the TIP.



It is recommended NOT TO WELD the electric wire.

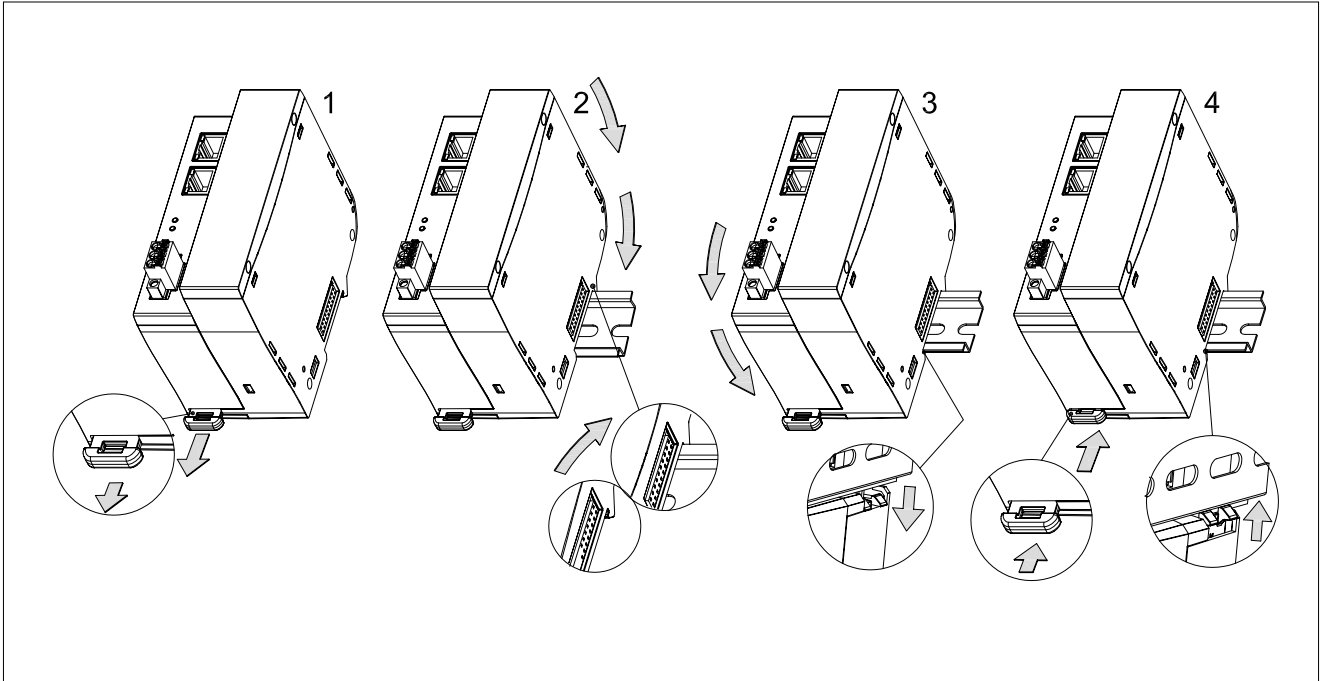
Minimum temperature rating of the cable to be connected to the field wiring terminals, 85 °C



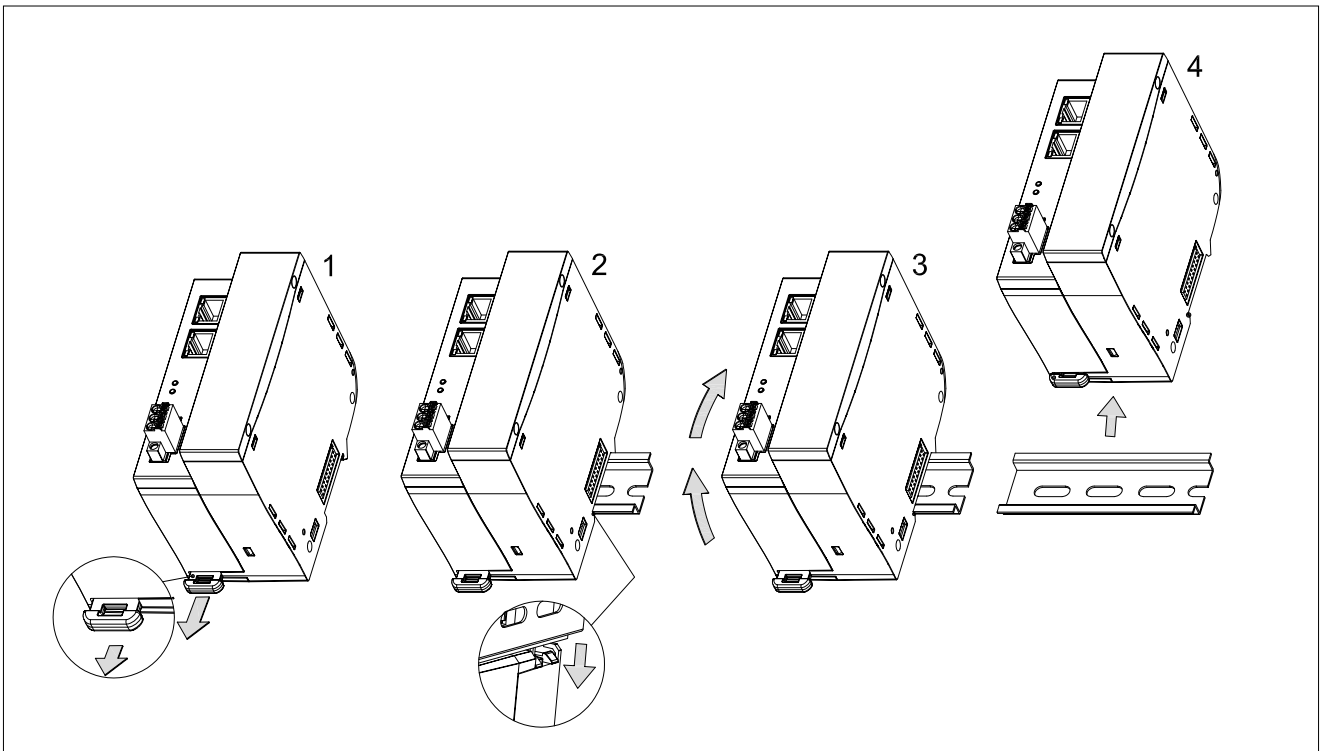
## 2.6. DIN rail mounting

### 2.6.1. G3-ECAT

To mount the G3-ECAT to the din bar, unclip the lower clip and leave it in the open stable position. Enter the top of the latch on the rail, rotate the board and place it on the DIN rail. Raise the lower clothespin slightly to free it and allow it to be hooked to the bar even in the lower part.

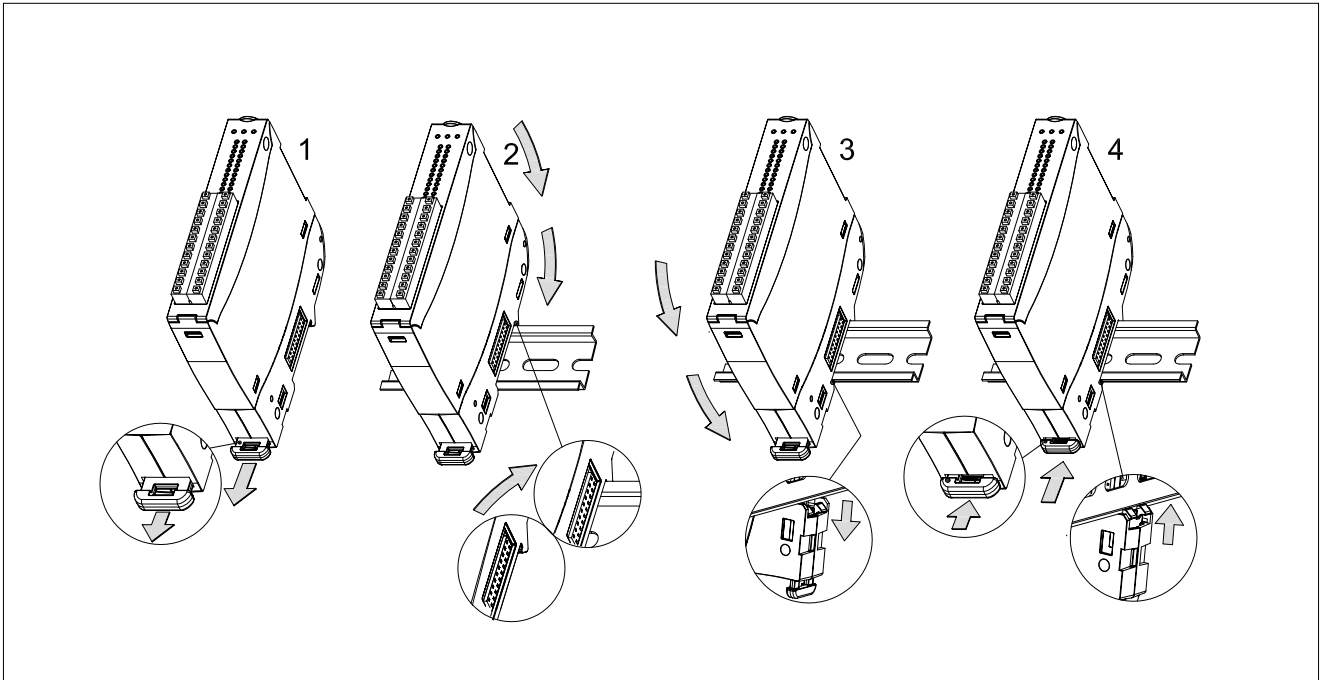


To remove the head the hub from the DIN rail, release the lower clip by slightly levering with a screwdriver and turn the board to release it.

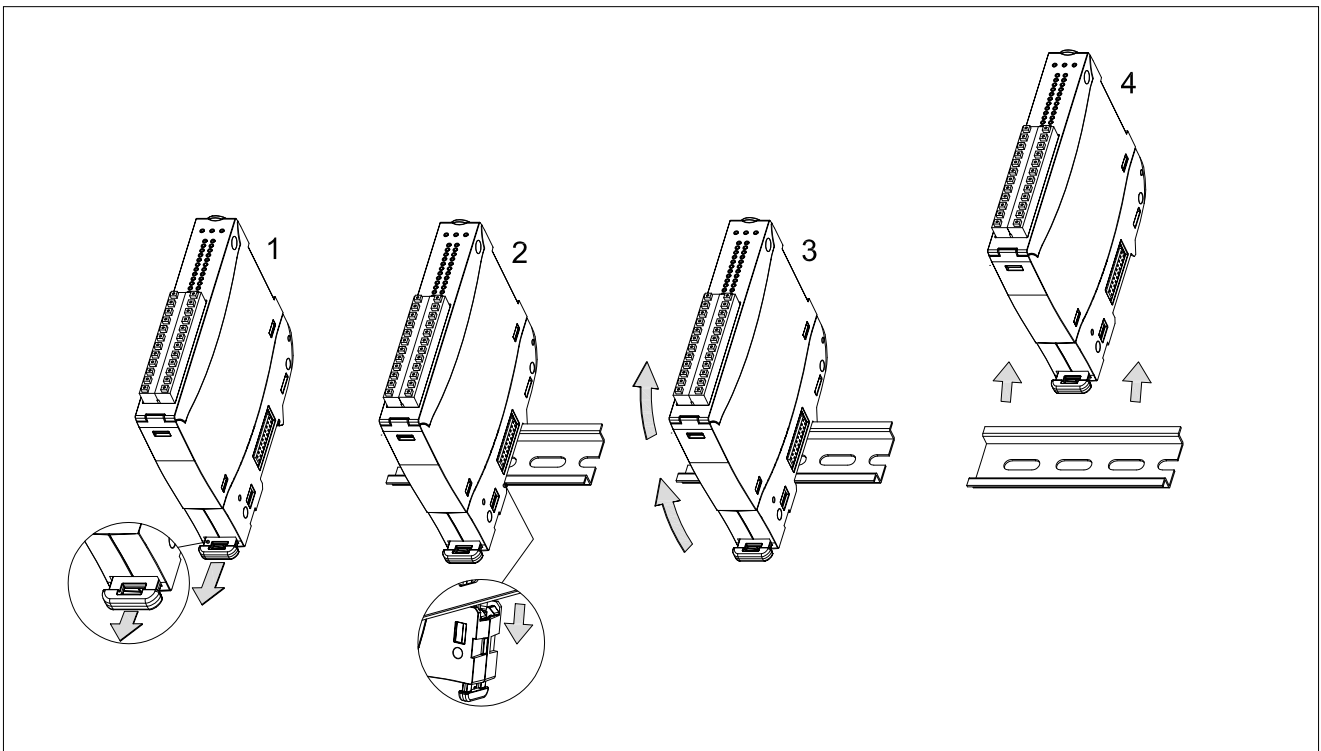


### 2.6.2. G3-xxxx (all models unless otherwise specified)

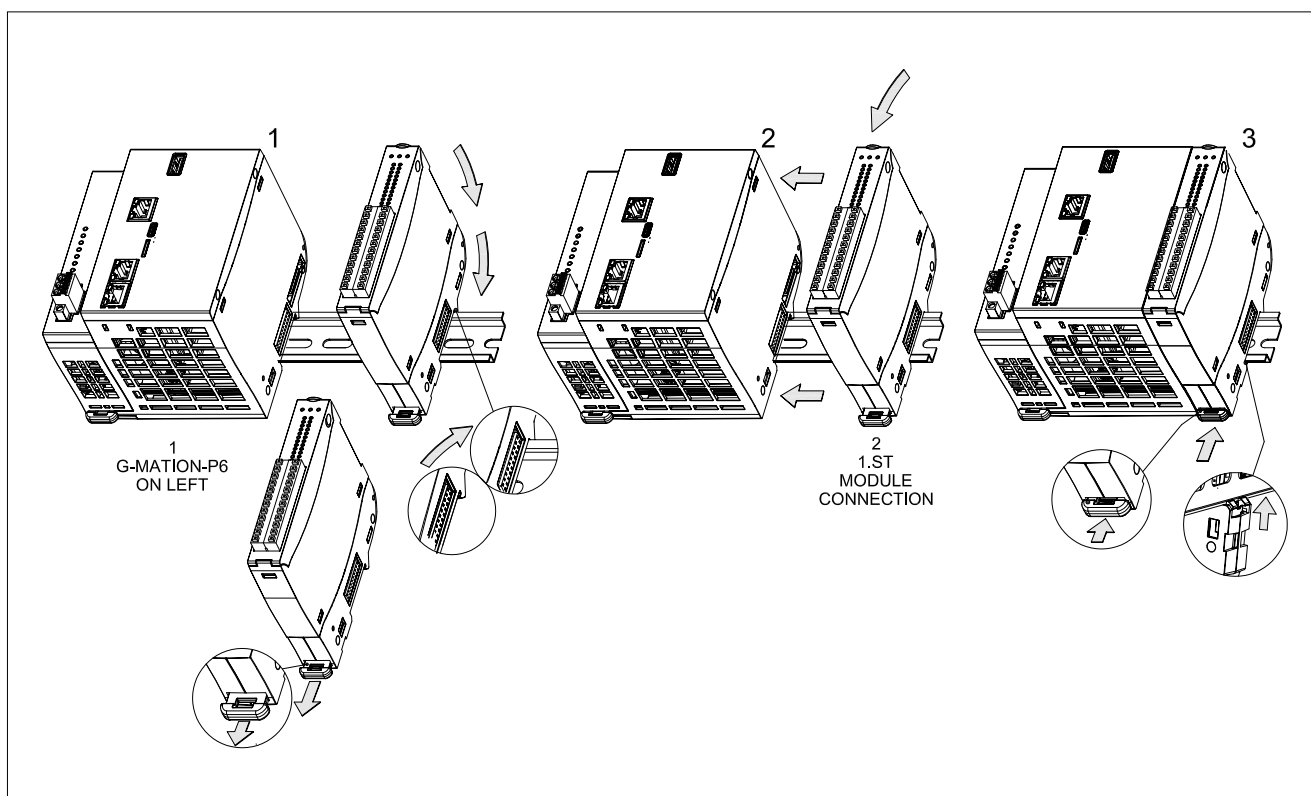
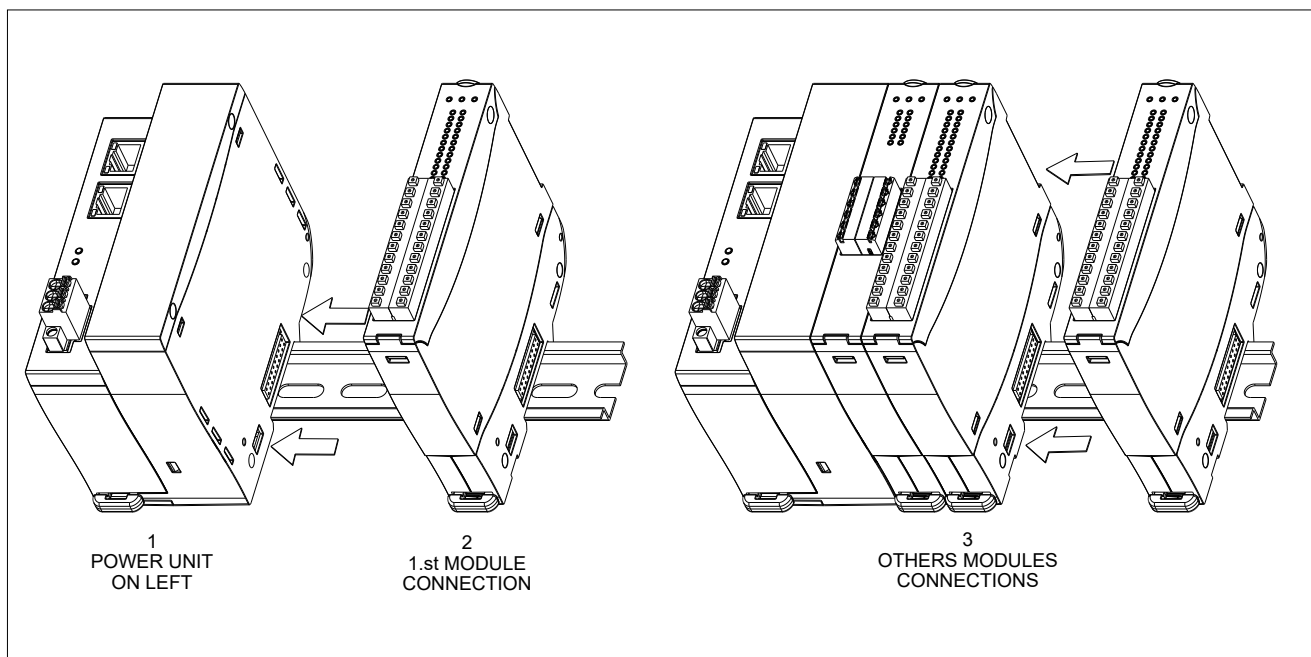
To mount the module to the din rail, unclip the lower clip and leave it in the open stable position. Insert the part top of the hook on the rail, rotate the board and place it on the DIN rail. Raise the lower clothespin slightly to free it and allow it to be hooked to the bar even in the lower part.



Remove the board from the DIN rail, release the lower clip using a screwdriver to lever it slightly, and turn the board to release it.

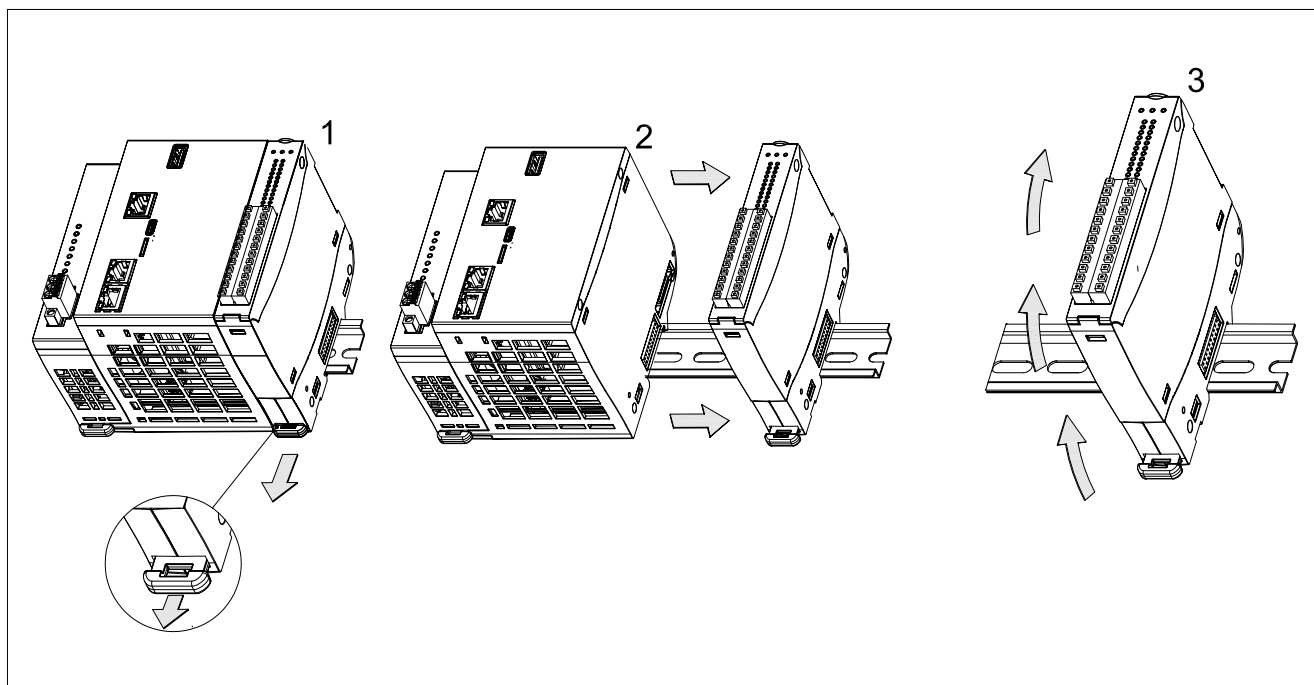
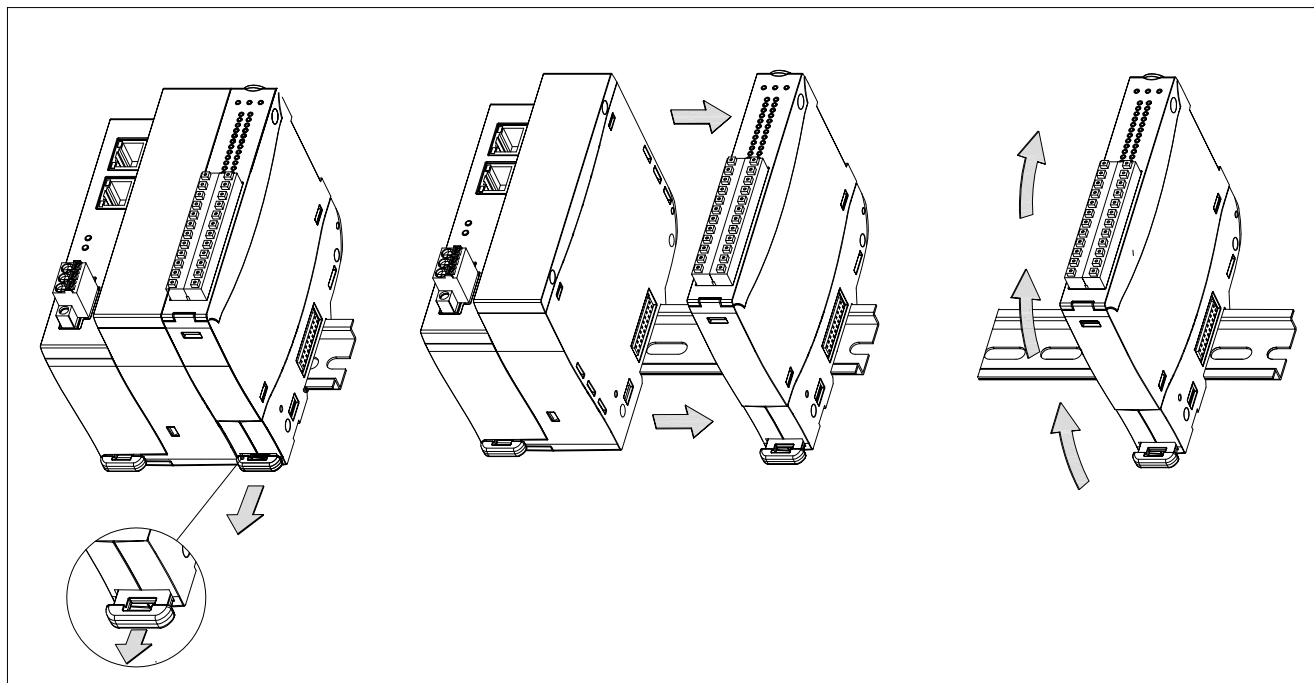


Once the board has been coupled, it is possible to secure the lower clip in the stable released position and slide it longitudinally on the rail until it is coupled to the previous board.



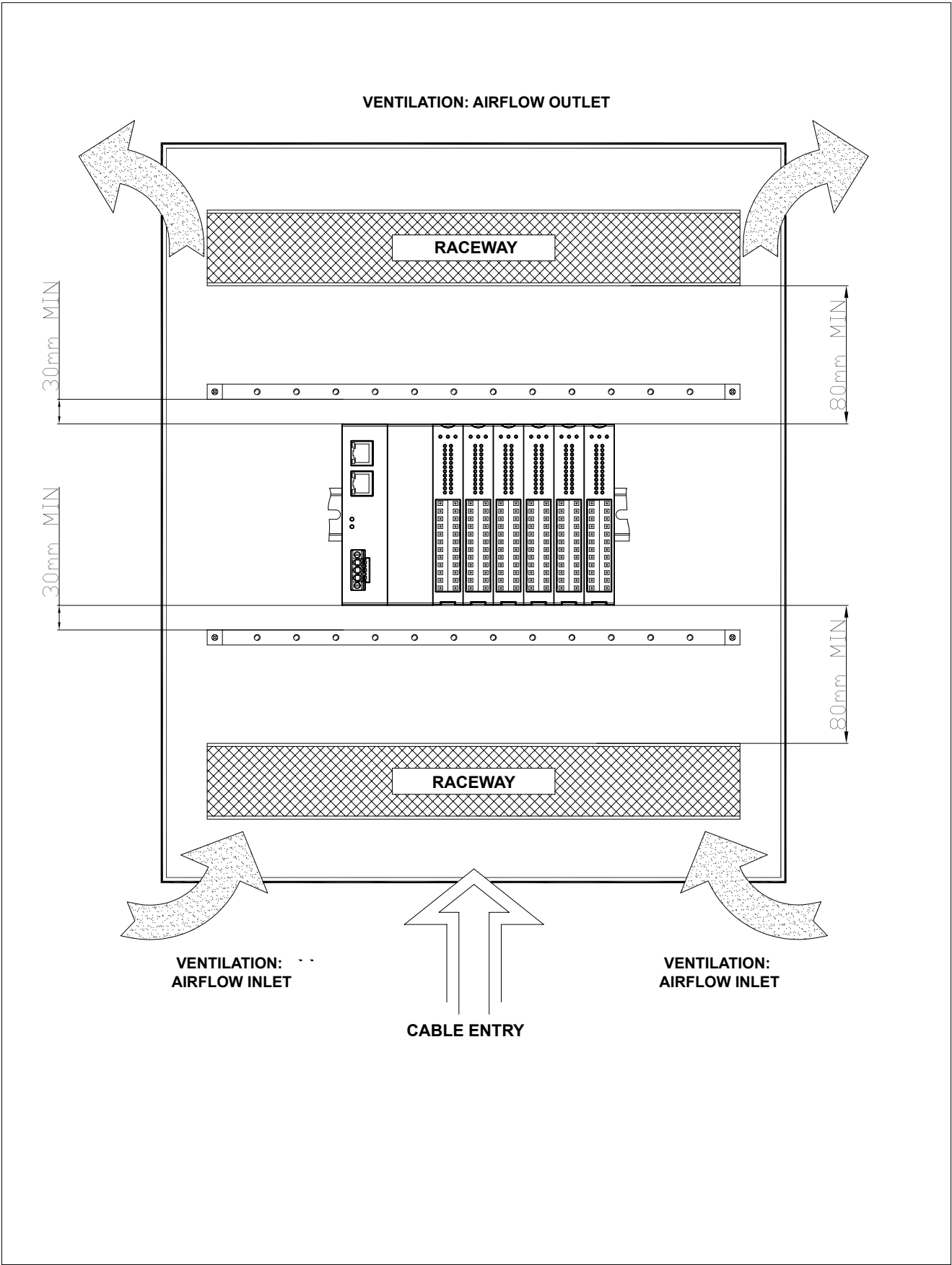
Once coupled, reinsert the lower clip so that the coupling with the DIN rail and the left board is firm and maintained by the force of the internal spring.

To release the board from the rack, use the lower clip and lock it in the stable released position. Slide the board to the right to separate it from the rack. Use the lower clip again and pull it so that you can lift the board from the din r.



## 2.7. Positioning

For the installation into an electrical cabinet of a G3 I/O rack, the ventilation distances as defined in the figure must be respected underlying.



## 3. TECHNICAL SPECIFICATIONS

### 3.1. Board equipment

The **G3-E20** module has 20 optically isolated digital inputs, 24 VDC, current sink.

It acquires logic signals from contacts, proximity sensors, drives and other IEC61131-2 compatible 24V digital output devices.

G3-E20 can be connected with all the G-Mation gateways and Px CPU from which it receives power supply.

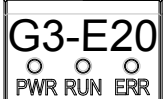
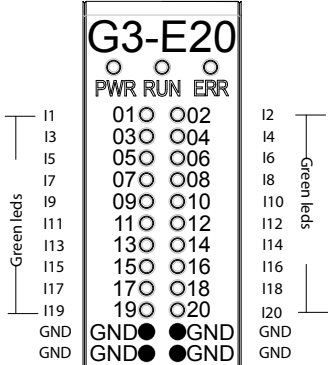
Each input is protected against reverse polarity and has a dedicated LED to indicate its state.

Each input has an independent software selectable input filter. 4 inputs are software configurable to measure frequencies up to 1kHz with RPM resolution.



| TECHNICAL DATA                                    |                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Inputs                                            | x20 digital inputs 24Vdc $\pm$ 25%                                                                                         |
| Protection against reverse polarity               | Yes                                                                                                                        |
| Input voltage trigger levels and input current    | IEC61131-2 Type1, Type3 inputs                                                                                             |
| Software selectable input filters                 | 100Hz and 5KHz                                                                                                             |
| Input 17-18-19-20 configurable as frequency meter | Up to 1 kHz.<br>Frequency value is given in RPM with resolution 1, 10, or 100RPM                                           |
| Hold time for transition detection                | From 0 to 1: 10us<br>From 1 to 0: 45us                                                                                     |
| Isolation                                         | 1.5kV                                                                                                                      |
| Power supply                                      | From G3-ECAT or Px CPU, it doesn't need any external power supply connection                                               |
| Overvoltage Category                              | II                                                                                                                         |
| Power dissipation                                 | 1,8 W, $\pm$ 5%                                                                                                            |
| MECHANICAL DATA                                   |                                                                                                                            |
| Dimensions                                        | 120x110x20 mm                                                                                                              |
| Weight                                            | 150 g                                                                                                                      |
| Protection level                                  | IP20 For UL: not UL evaluated. Open type device                                                                            |
| Connector                                         | Front 24 pin-5.08 mm pitch removable connection system with spring wire retention, no tool required to fix or remove wires |
| Attachment                                        | mechanically snaps onto DIN rail                                                                                           |
| ENVIRONMENTAL CONDITIONS                          |                                                                                                                            |
| Working temperature                               | -10...55°C                                                                                                                 |
| Storage temperature                               | -25...70°C                                                                                                                 |
| Humidity                                          | max. 90% Rh not condensing                                                                                                 |
| Pollution degree                                  | 2                                                                                                                          |
| Maximum altitude                                  | 2000 m                                                                                                                     |

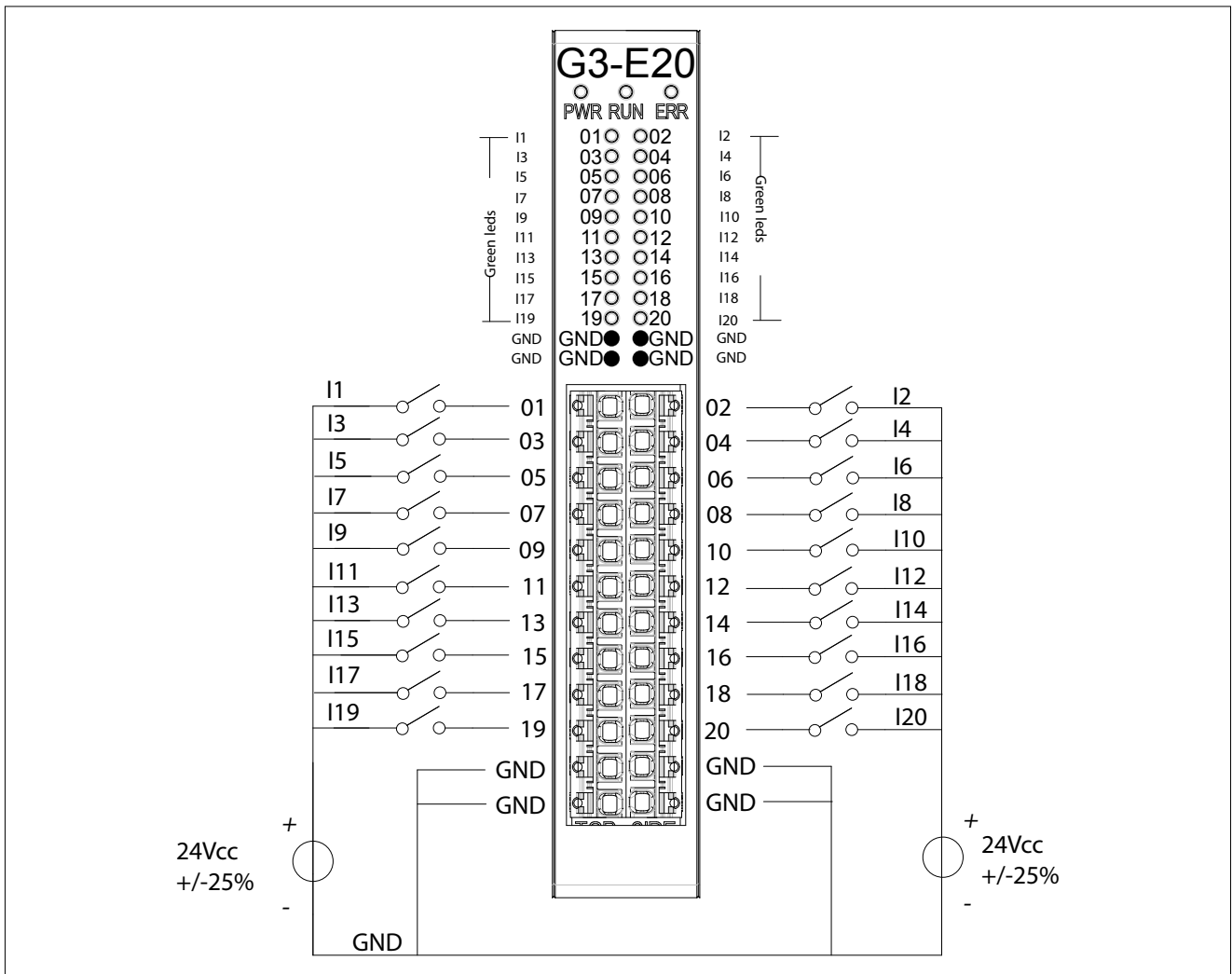
### 3.2. Meaning of LEDs

|                                                                                                                                        | ACRONYM           | COLOR | LED STATUS                                         | MEANING                           |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|----------------------------------------------------|-----------------------------------|
| <b>MODULE DIAGNOSTICS</b><br><br>                     | <b>PWR</b>        | GREEN | OFF                                                | no power supply                   |
|                                                                                                                                        |                   |       | ON                                                 | power supply present              |
|                                                                                                                                        | <b>RUN</b>        | GREEN | OFF                                                | <b>INIT</b> or <b>BOOT</b> status |
|                                                                                                                                        |                   |       | Blinking: 2.5 Hz (Slow blinking)                   | <b>PRE-OPERATIONAL</b> status     |
|                                                                                                                                        |                   |       | Single Flash: on 200 ms off 1000 ms (Single Flash) | <b>SAFEOP</b> status              |
|                                                                                                                                        |                   |       | Flickering: 10 Hz (Fast flickering)                | <b>BOOT</b> status                |
|                                                                                                                                        |                   |       | ON                                                 | <b>OPERATIONAL</b> status         |
|                                                                                                                                        | <b>ERR</b>        | RED   | OFF                                                | no error                          |
|                                                                                                                                        |                   |       | Blinking (Slow blinking)                           | configuration error               |
|                                                                                                                                        |                   |       | Single Flash                                       | generic runtime error             |
|                                                                                                                                        |                   |       | Double Flash                                       | wdog on cyclic data.              |
|                                                                                                                                        |                   |       | Flickering (Fast blinking)                         | error during the BOOTING phase    |
| <b>IOs DIAGNOSTICS:</b><br>20 digital input<br><br> | <b>nn (0..20)</b> | GREEN | OFF                                                | active input = 1 logic            |
|                                                                                                                                        |                   |       | ON                                                 | input not active = 0 logic        |

If communication with the master is active, more information can be obtained from the objects in the module itself.

### 3.3. Connections

#### 3.3.1. Front connections



Use unipolar flexible electrical wire with a 0.75 .. 1.50 mm<sup>2</sup> section and 8 .. 9 mm strip length to wire DIGITAL INPUTS.

See paragraph “2.5. Front connector wiring” a pagina 12 of this manual For wiring modes

### 3.4. Resource software management

G3-E20 module resources are available through the objects described below, which are provided by the EtherCAT protocol according to directive ETG 5001.

All objects are made available to the master through the ESI file called:  
**Gefran G3-E20 Vxx** where xx is the version.

The file is available on the Gefran WEBSITE ([www.gefran.com](http://www.gefran.com)).

#### 3.4.1. Module objects

**Module information:**

| INDEX  | SUB INDEX | NAME                    | PDO MAP | TYPE   | ACCESS | DEFAULT VALUE                                 |      |
|--------|-----------|-------------------------|---------|--------|--------|-----------------------------------------------|------|
| 0x1000 | 0         | Device type             | No      | UDINT  | RO     | 0x0001389                                     | 5001 |
| 0x1001 | 0         | Error Register          | No      | USINT  | RO     | 0x00                                          |      |
| 0x1008 | 0         | Device Name             | No      | STRING | RO     | G3-E20                                        |      |
| 0x1009 | 0         | Manufacturer HW version | No      | STRING | RW     | 3                                             |      |
| 0x100A | 0         | Manufacturer SW version | No      | STRING | RO     | 1.4.0                                         |      |
| 0x1018 | 0         | Objects number          | No      | USINT  | RO     | 4                                             |      |
|        | 1         | Vendor Id               | No      | UDINT  | RO     | 0x0000 0093<br>(Gefran)                       |      |
|        | 2         | Product Code            | No      | UDINT  | RO     | 0x00000BBA (3002)                             |      |
|        | 3         | Revision Number         | No      | UDINT  | RO     | 0x0000 0003<br>o<br>0x0000 0004               |      |
|        | 4         | Serial Number           | No      | UDINT  | RW     | 0x0000 0000<br>(Numero di serie del prodotto) |      |

### 3.4.2. IOs management

#### Digital inputs

| INDEX  | SUB INDEX | NAME                   | PDO MAP | TYPE  | ACCESS | DEFAULT VALUE |
|--------|-----------|------------------------|---------|-------|--------|---------------|
| 0x6003 | 0         | Objects number         | No      | USINT | RO     | 21            |
|        | 1         | Digital Input Value 1  | Yes     | BOOL  | RO     | FALSE         |
|        | 2         | Digital Input Value 2  | Yes     | BOOL  | RO     | FALSE         |
|        | 3         | Digital Input Value 3  | Yes     | BOOL  | RO     | FALSE         |
|        | 4         | Digital Input Value 4  | Yes     | BOOL  | RO     | FALSE         |
|        | 5         | Digital Input Value 5  | Yes     | BOOL  | RO     | FALSE         |
|        | 6         | Digital Input Value 6  | Yes     | BOOL  | RO     | FALSE         |
|        | 7         | Digital Input Value 7  | Yes     | BOOL  | RO     | FALSE         |
|        | 8         | Digital Input Value 8  | Yes     | BOOL  | RO     | FALSE         |
|        | 9         | Digital Input Value 9  | Yes     | BOOL  | RO     | FALSE         |
|        | 10        | Digital Input Value 10 | Yes     | BOOL  | RO     | FALSE         |
|        | 11        | Digital Input Value 11 | Yes     | BOOL  | RO     | FALSE         |
|        | 12        | Digital Input Value 12 | Yes     | BOOL  | RO     | FALSE         |
|        | 13        | Digital Input Value 13 | Yes     | BOOL  | RO     | FALSE         |
|        | 14        | Digital Input Value 14 | Yes     | BOOL  | RO     | FALSE         |
|        | 15        | Digital Input Value 15 | Yes     | BOOL  | RO     | FALSE         |
|        | 16        | Digital Input Value 16 | Yes     | BOOL  | RO     | FALSE         |
|        | 17        | Digital Input Value 17 | Yes     | BOOL  | RO     | FALSE         |
|        | 18        | Digital Input Value 18 | Yes     | BOOL  | RO     | FALSE         |
|        | 19        | Digital Input Value 19 | Yes     | BOOL  | RO     | FALSE         |
|        | 20        | Digital Input Value 20 | Yes     | BOOL  | RO     | FALSE         |
|        | 21        | pad                    | Yes     | 4 bit | RO     | FALSE         |

The Boolean value of digital input 1..20 is available in the object in sub-indexes 1..20  
Digital input type (n): **BOOL**

**false:** not active input

**true:** active input

#### Frequency inputs

| INDEX             | SUB INDEX | NAME                     | PDO MAP | TYPE  | ACCESS | DEFAULT VALUE |
|-------------------|-----------|--------------------------|---------|-------|--------|---------------|
| "0x600D<br>rev 4" | 0         | Objects number           | No      | USINT | RO     | 4             |
|                   | 1         | Frequency Input Value 17 | Yes     | UINT  | RO     | 0x000         |
|                   | 2         | Frequency Input Value 18 | Yes     | UINT  | RO     | 0x000         |
|                   | 3         | Frequency Input Value 19 | Yes     | UINT  | RO     | 0x000         |
|                   | 4         | Frequency Input Value 20 | Yes     | UINT  | RO     | 0x000         |

The frequency value 1..4 is available in the object in sub-indexes 1..4  
Input Type FREQUENCY: **UINT** (frequency value in rpm)

### 3.4.3. IOs Configuration Objects

#### Software Filter

| INDEX  | SUB INDEX | NAME                     | PDO MAP | TYPE  | ACCESS | DEFAULT VALUE |
|--------|-----------|--------------------------|---------|-------|--------|---------------|
| 0x8000 | 0         | Objects number           | No      | USINT | RO     | 21            |
|        | 1         | Software Filter Value 1  | No      | BOOL  | RW     | FALSE         |
|        | 2         | Software Filter Value 2  | No      | BOOL  | RW     | FALSE         |
|        | 3         | Software Filter Value 3  | No      | BOOL  | RW     | FALSE         |
|        | 4         | Software Filter Value 4  | No      | BOOL  | RW     | FALSE         |
|        | 5         | Software Filter Value 5  | No      | BOOL  | RW     | FALSE         |
|        | 6         | Software Filter Value 6  | No      | BOOL  | RW     | FALSE         |
|        | 7         | Software Filter Value 7  | No      | BOOL  | RW     | FALSE         |
|        | 8         | Software Filter Value 8  | No      | BOOL  | RW     | FALSE         |
|        | 9         | Software Filter Value 9  | No      | BOOL  | RW     | FALSE         |
|        | 10        | Software Filter Value 10 | No      | BOOL  | RW     | FALSE         |
|        | 11        | Software Filter Value 11 | No      | BOOL  | RW     | FALSE         |
|        | 12        | Software Filter Value 12 | No      | BOOL  | RW     | FALSE         |
|        | 13        | Software Filter Value 13 | No      | BOOL  | RW     | FALSE         |
|        | 14        | Software Filter Value 14 | No      | BOOL  | RW     | FALSE         |
|        | 15        | Software Filter Value 15 | No      | BOOL  | RW     | FALSE         |
|        | 16        | Software Filter Value 16 | No      | BOOL  | RW     | FALSE         |
|        | 17        | Software Filter Value 17 | No      | BOOL  | RW     | FALSE         |
|        | 18        | Software Filter Value 18 | No      | BOOL  | RW     | FALSE         |
|        | 19        | Software Filter Value 19 | No      | BOOL  | RW     | FALSE         |
|        | 20        | Software Filter Value 20 | No      | BOOL  | RW     | FALSE         |
|        | 21        | pad                      | No      | 4 bit | RW     | FALSE         |

Enabling digital filters on inputs 1..20 is available in sub-indexes 1..20.

Software Type Filter Value (n) : **BOOL**

**false**: filter not activated, max input frequency = 5 kHz

**true**: filter on, max input frequency = 100 Hz

#### Setting pulse number per revolution (for frequency input only):

| INDEX             | SUB INDEX | NAME                            | PDO MAP | TYPE  | ACCESS | DEFAULT VALUE |
|-------------------|-----------|---------------------------------|---------|-------|--------|---------------|
| "0x8001<br>rev 4" | 0         | Objects number                  | No      | USINT | RO     | 21            |
|                   | 1         | Impulse for Revolution Input 17 | No      | USINT | RW     | 0x00          |
|                   | 2         | Impulse for Revolution Input 18 | No      | USINT | RW     | 0x00          |
|                   | 3         | Impulse for Revolution Input 19 | No      | USINT | RW     | 0x00          |
|                   | 4         | Impulse for Revolution Input 20 | No      | USINT | RW     | 0x00          |

The setting number of pulses turn 1..4 is available in the object in sub-index 1..4

Pulse Type/Revolution: **USINT** (Frequency Value in Revolutions/Minute)

0 : Function not used, default

1..250 : Number of pulses per revolution

### Frequency resolution (in rpm)

| INDEX             | SUB INDEX | NAME                          | PDO MAP | TYPE  | ACCESS | DEFAULT VALUE |
|-------------------|-----------|-------------------------------|---------|-------|--------|---------------|
| "0x8002<br>rev 4" | 0         | Objects number                | No      | USINT | RO     | 21            |
|                   | 1         | Frequency Resolution Input 17 | No      | USINT | RW     | 0x00          |
|                   | 2         | Frequency Resolution Input 18 | No      | USINT | RW     | 0x00          |
|                   | 3         | Frequency Resolution Input 19 | No      | USINT | RW     | 0x00          |
|                   | 4         | Frequency Resolution Input 20 | No      | USINT | RW     | 0x00          |

Enabling frequency input resolution is available in sub-indexes 1..4.

0 = no selection  
 1 = → 1 rpm  
 10 = → 10 rpm  
 100 = → 100 rpm

### 3.4.4. Control objects

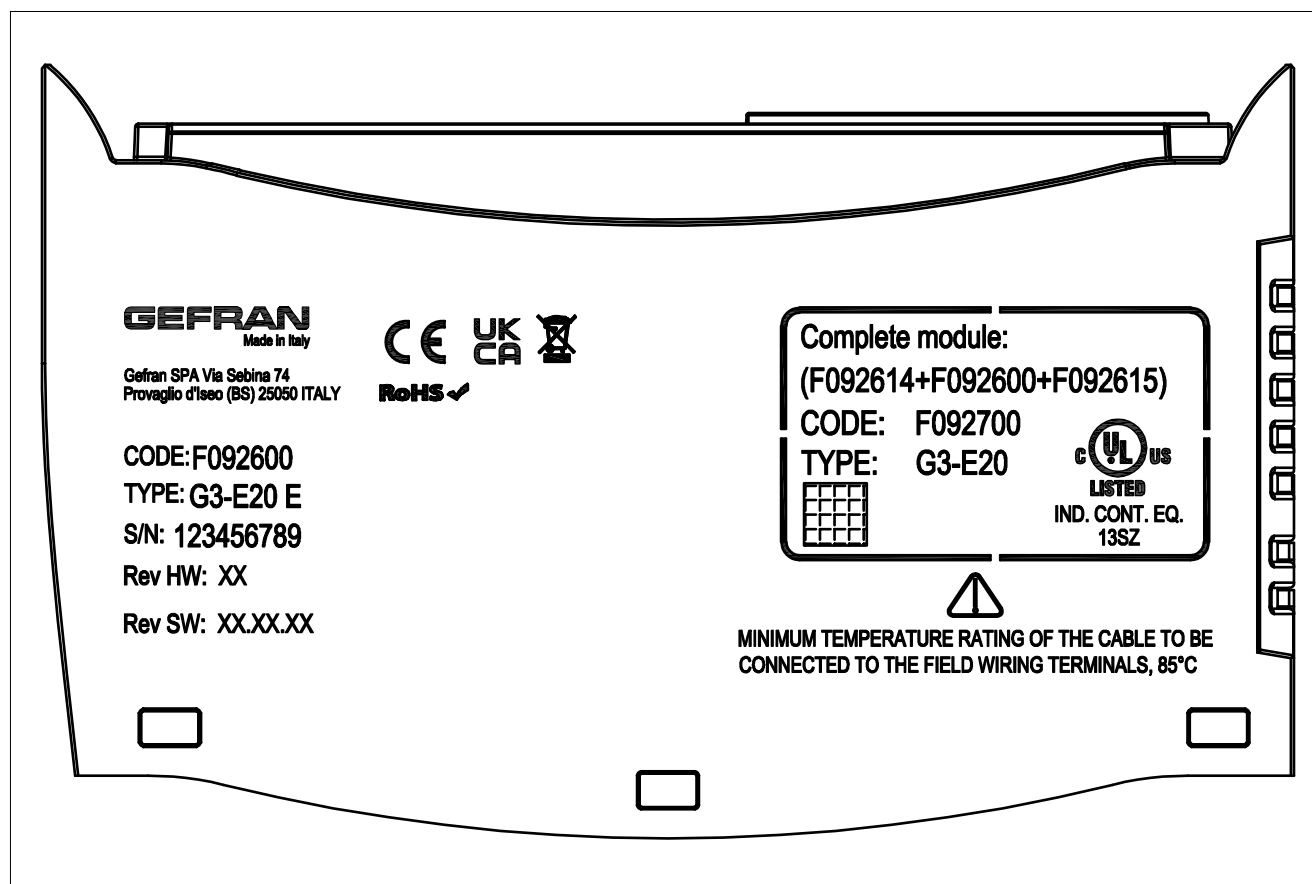
| INDEX  | SUB INDEX | NAME | TYPE              | ACCESS | DEFAULT / NOTE | ACCESS | DEFAULT / NOTE |
|--------|-----------|------|-------------------|--------|----------------|--------|----------------|
| 0x9000 | 0         | No   | Device Code       | No     | UINT           | RO     | 0x0BBA         |
| 0x9001 | 0         | No   | Hardware Revision | No     | UINT           | RW     | 0x03           |
| 0x9002 | 0         | No   | Firmware Version  | No     | UINT           | RO     | 0x0130         |
| 0x9003 | 0         | No   | Serial Number     | No     | UDINT          | RW     | 0x00000000     |
| 0x9004 | 0         | No   | Order Code        | No     | STRING(7)      | RO     | F092600        |

## 4. ACRONYM AND ORDER CODE

| COMPLETE MODULE   | G3-E20   | F092700 |
|-------------------|----------|---------|
| Front             | G3-E20 F | F092615 |
| Electronic module | G3-E20 E | F092600 |
| Bus               | G3-BUS   | F092614 |

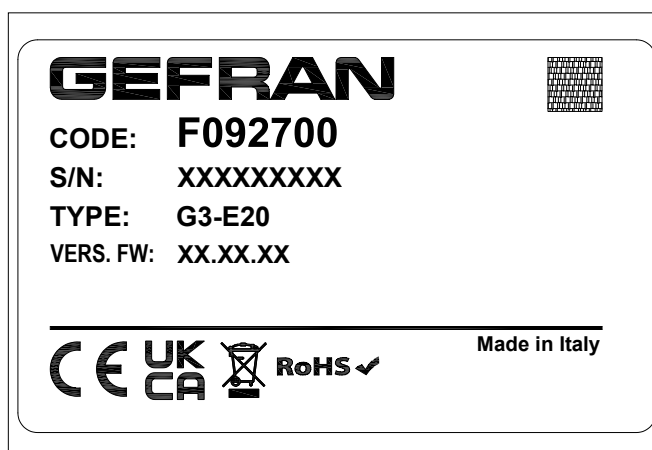
## 5. MARKING

Every module contain the datas of every module part and the full module.



The following information may be found on the label:

- CODE: product code
- S/N: product serial number
- TYPE: product name / description
- HW: hardware version 1 .. 99
- GEFRAN logo
- certifications
- logo specifying product disposal



This symbol present on the product label stands for further indications on product manual. For correct and sale installation, follow the instructions and observe the warnings contained in this manual. No hazards shall arise by any reasonably foreseeable misuse in a way not intended, and not described in this manual. The complete manual is available for download from the website [www.gefran.com](http://www.gefran.com). UL file number E-198546.

### Certifications

|  |                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | This device conforms to European Union Directive 2014/30/EU and 2014/35/EU as amended with reference to generic standards: <b>EN 61000-6-2</b> (immunity in industrial environment) <b>EN 61000-6-4</b> (emission in industrial environment) - <b>EN 61010-1</b> (safety regulations). |
|  | cULus listed, Conformity UL61010-1 - File: E198546                                                                                                                                                                                                                                     |

## 6. DISPOSAL



The product must be disposed of in accordance with the regulations in force.

Some of the components used in the devices can cause damage to the environment if incorrectly disposed.

Pursuant to art. 26 of Legislative Decree 14 March 2014, no. 49 "Implementation of Directive 2012/19/EU on waste from electrical and electronic equipment (WEEE)".

The symbol showing a crossed-out wheeled bin on equipment or its packaging indicates that the product must be collected separately from other waste at the end of its useful life.

By collecting the disused equipment separately, it can be recycled, treated or disposed of in an environmentally friendly manner, thus helping to prevent the environment and public health from being affected negatively and enabling reuse and/or recycling of the materials forming the equipment.

**GEFRAN**