

#### Main applications

- Keyboards to manage machine machine movements in the following sectors:
  - Plastics
  - Packaging
  - Wood

#### Main characteristics

- Electromechanical command buttons ( $\varnothing$  16mm)
- "Mushroom" button for emergency stop
- Interfaceable with GF\_VEDO terminals via TF keyboards
- Dimensions compatible with GF\_VEDO terminals and TF keyboards

#### PROFILE

TE keyboards offer complete integration of electromechanical commands with TF fieldbus keyboards.

Using the inputs on TF32 keyboards it is possible to display and manage in GF\_VEDO terminals all commands arriving from TE keyboards .

Models include: TE8 adapted for the TF32-104 (GF\_VEDO104) keyboard and the TE5 model for the TF32-65 (GF\_VEDO65) keyboard.

Both models can be ordered with pre-assembled emergency/selectors/ buttons or with plugs.

In the latter case, the customer is responsible for installing the buttons he requires.

Both models support IP65 protection level at the front and IP20 at the rear.

Using removable labels it is possible to customise the button/selector description.

#### TECHNICAL DATA

##### DIMENSIONS:

##### TE5-65

Mech.dim:	187x60,5mm
Template:	178x51,5x40mm
Weight:	0,4Kg

##### TE8-104

Mech.dim:	266x60,5mm
Template:	257x51,5x40mm
Weight:	0,5Kg

##### GENERAL DATA

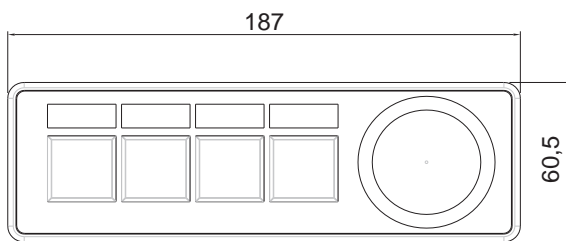
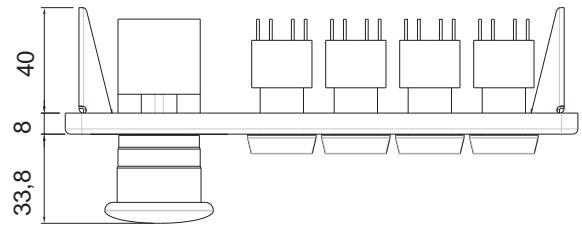
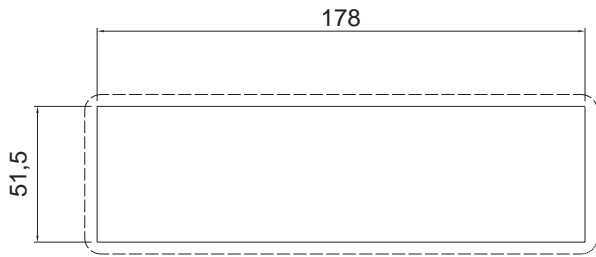
Front protection:	IP65
Working temperature:	< 90% non condensing

Storage temperature:	< 90% non condensing
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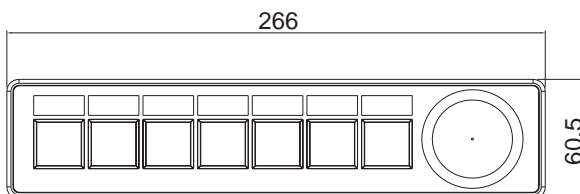
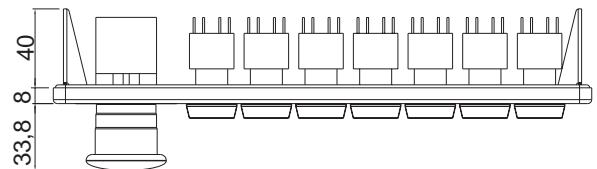
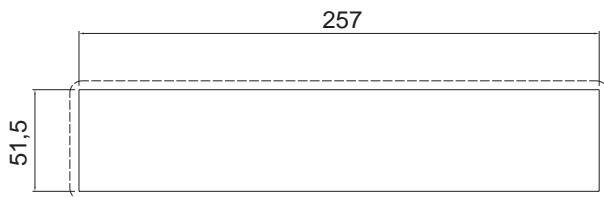
Certifications:	<ul style="list-style-type: none"> <li>• CE</li> <li>• UL (pending)</li> </ul>
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## DIMENSIONS

### Dimensions TE5-65



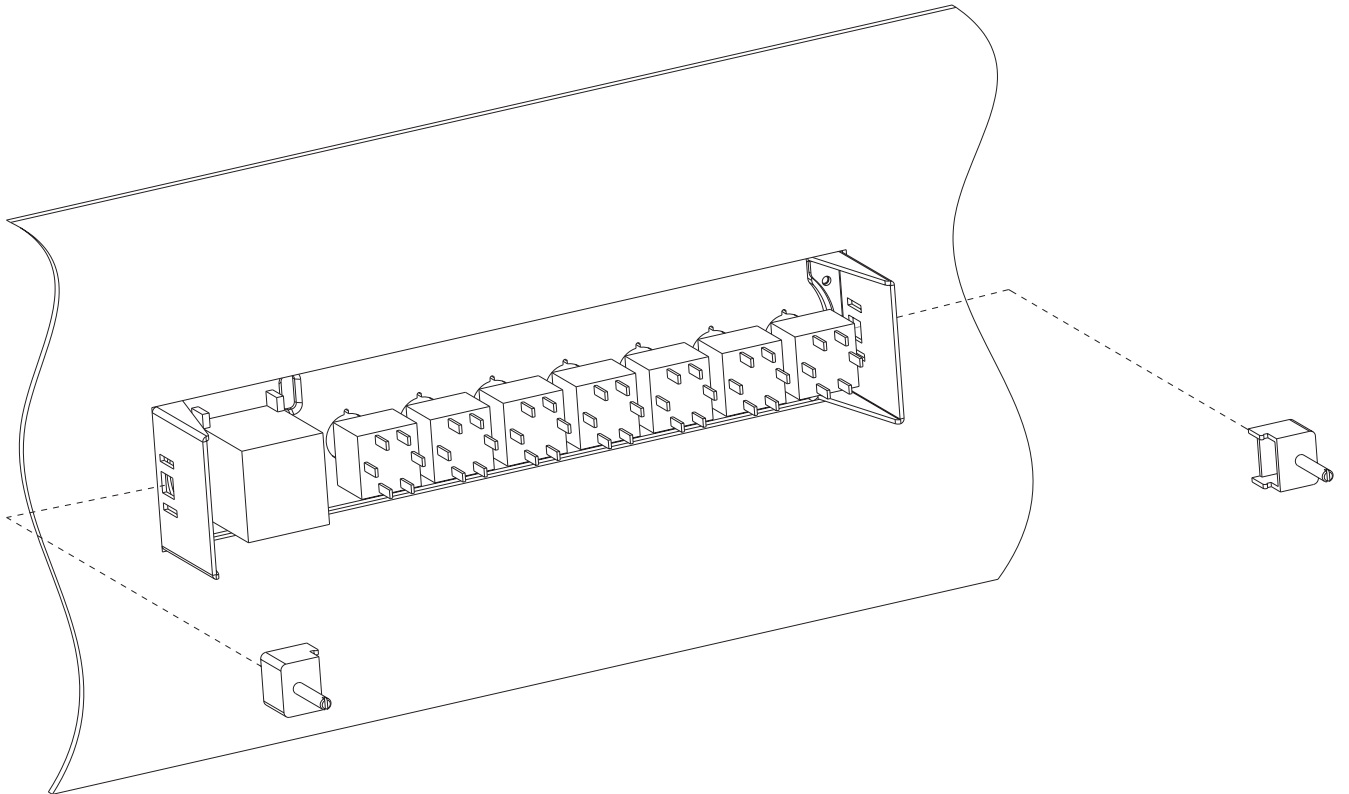
### Dimensions TE8-104



Note: All measurements are in mm, with tolerance of  $\pm 0.5$  mm

## FIXING

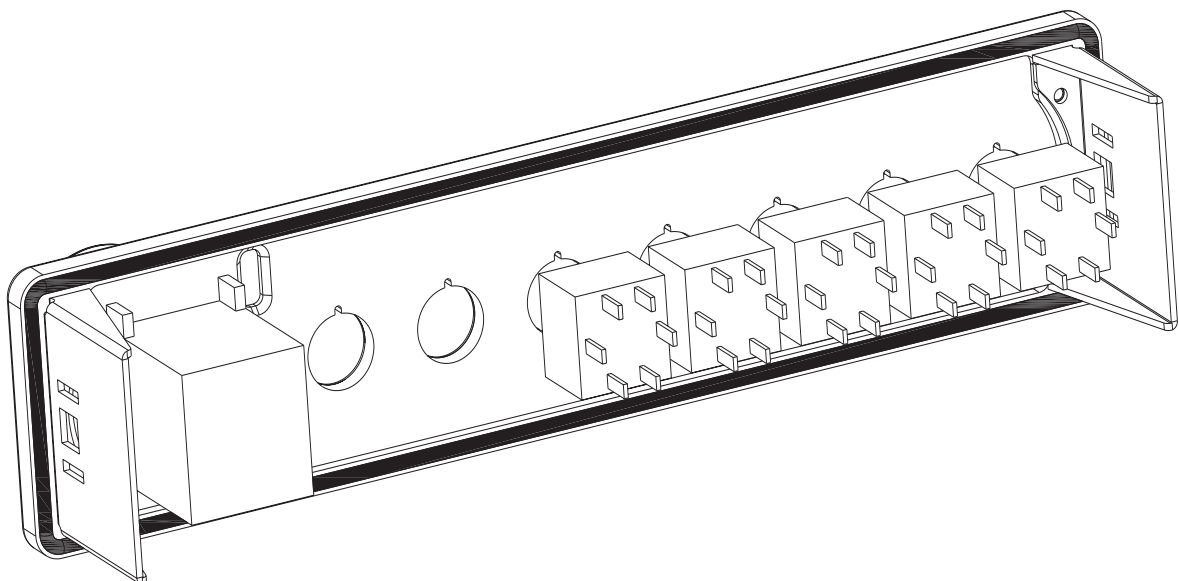
The TE keyboards are designed for front-panel attachment.  
After drilling the holes on the plate as shown on the template, attach the keyboards with the blocks supplied with the product.



### Installation notes:

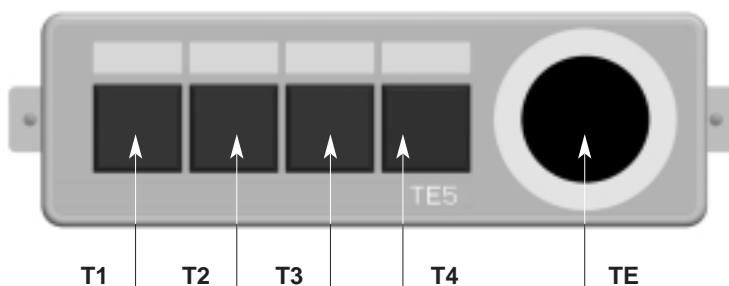
- The edges of the hole for the panel must be perfectly smooth and flat
- Tighten each fastening screw until the corner of the frame touches the panel
- Check that the seal is properly positioned

### Seal

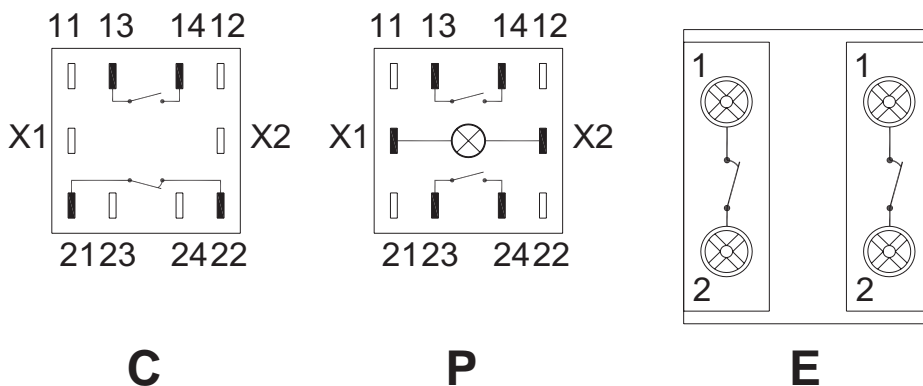
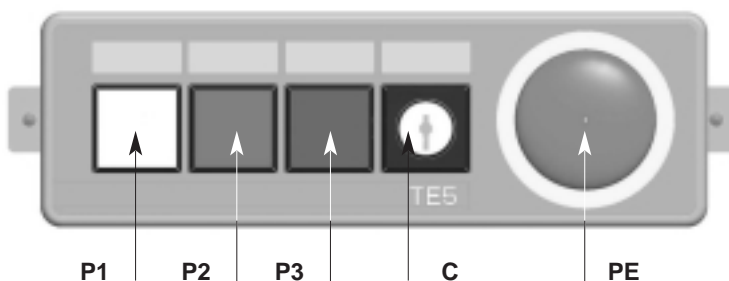


## CONNECTIONS

Keyboard Front View  
TE5-65-T0



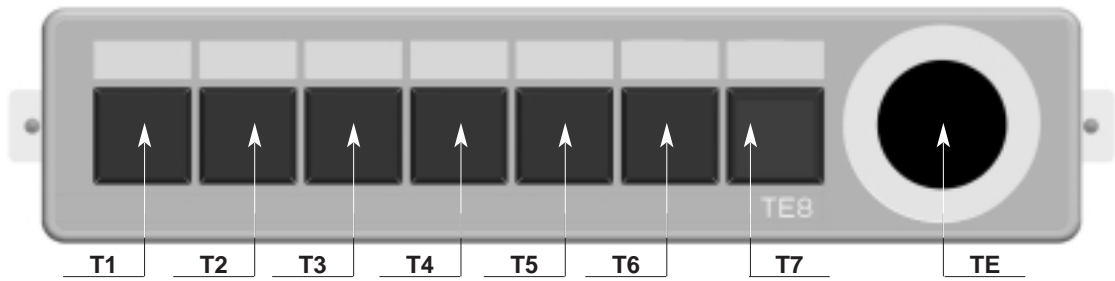
Keyboard Front View  
TE5-65-E0



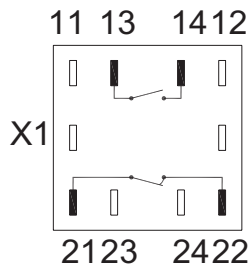
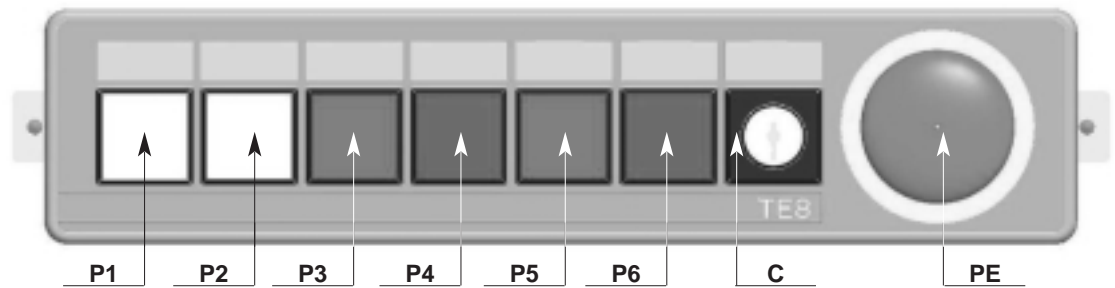
Electromechanical component			Features		
Name	Code	Colour	Type	Dim. ø mm	Contacts
Emergency Stop (E)	PE	Red	"Mushroom" head (push-pull)	40	2 NC: (1-2), (1-2)
Buttons (P)	P1	White	Impulse command button		2 NO: (13-14), (23-24) 1 Bulb: X1 (+24Vdc), X2 (0Vdc)
	P2	Red			
	P3	Green			
Key (C)	C	Black	2 positions (Latching)	16,2	1 NO: (13-14) 1 NC: (21-22)
Emergency plug	TE	Black	-	22	-
Plug Button Key	T1,T2,T3,T4	Black	-	16,2	-

## CONNECTIONS

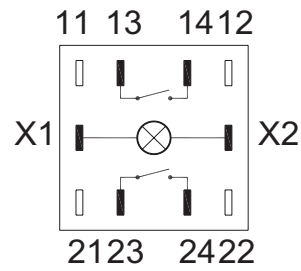
### Keyboard Front View TE8-104-T0



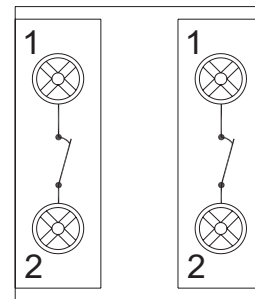
### Keyboard Front View TE8-104-E0



**C**



**P**

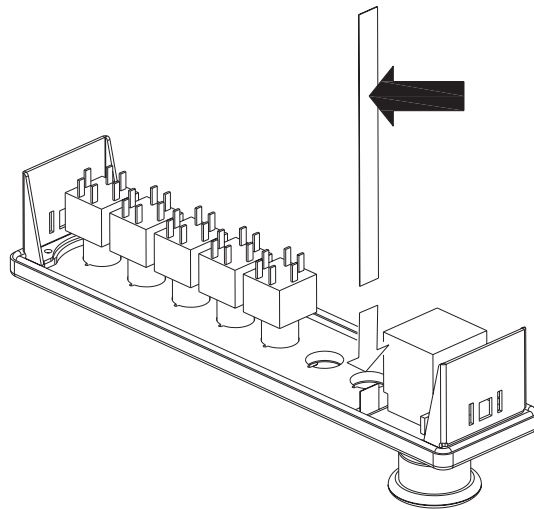


**E**

Electromechanical component			Features		
Name	Code	Colour	Type	Dim. ø mm	Contacts
Emergency Stop (E)	PE	Red	"Mushroom" head (push-pull)	40	2 NC: (1-2), (1-2)
Buttons (P)	P1, P2	White	Impulse command button		2 NO: (13-14), (23-24) 1 Lampada: X1 (+24Vdc), X2 (0Vdc)
	P3, P5	Red			
	P4, P6	Green			
Key (C)	C	Black	2 positions (Latching)	16,2	1 NO: (13-14) 1 NC: (21-22)
Emergency plug	TE	Black	-	22	-
Plug Button/Key	T1,T2,T3,T4 T5, T6, T7	Black	-	16,2	-

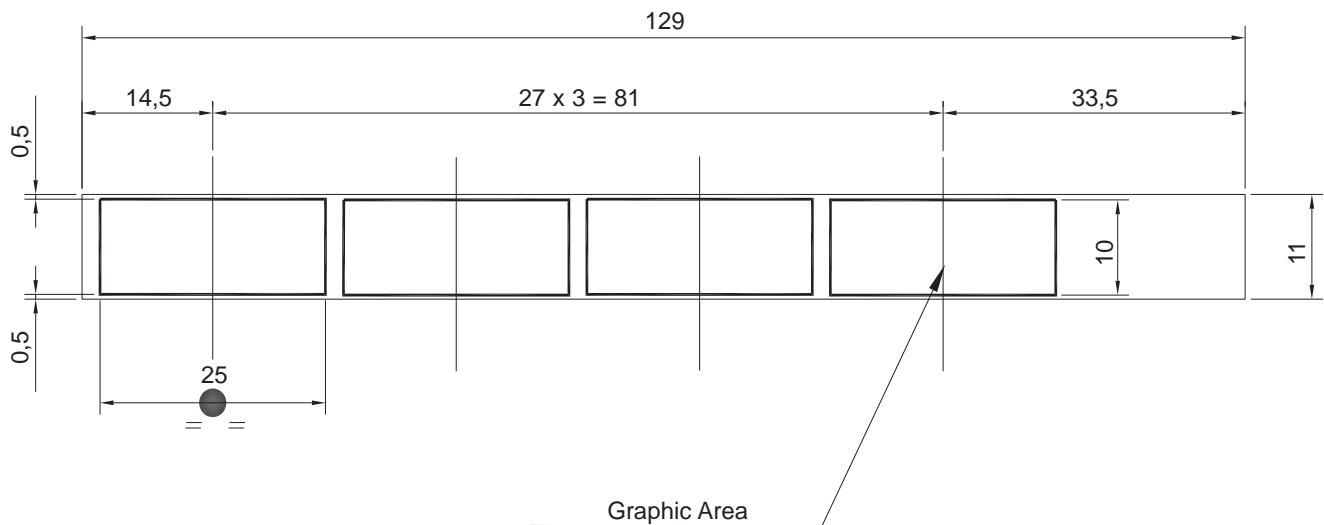
## CARDS

### Example of TE8-104 card insertion Standard

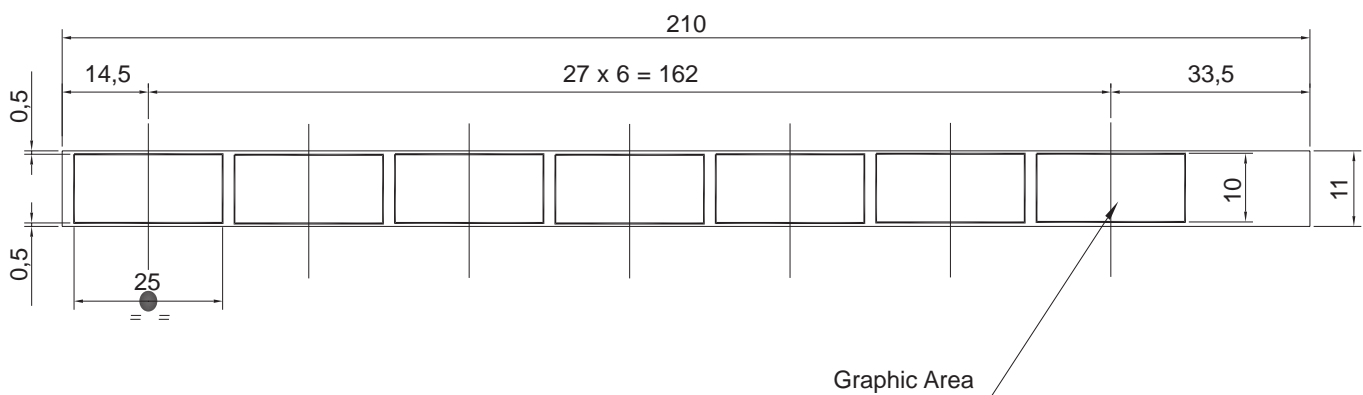


The card is inserted laterally from the left towards the right (seen from the rear, the keyboard has the slot at the top). The arrow shows the printed side of the card.

### TE5-65 Card dimensions



### TE8-104 Card dimensions

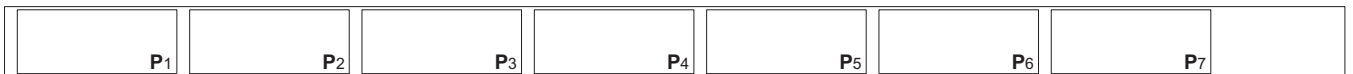


## CARDS

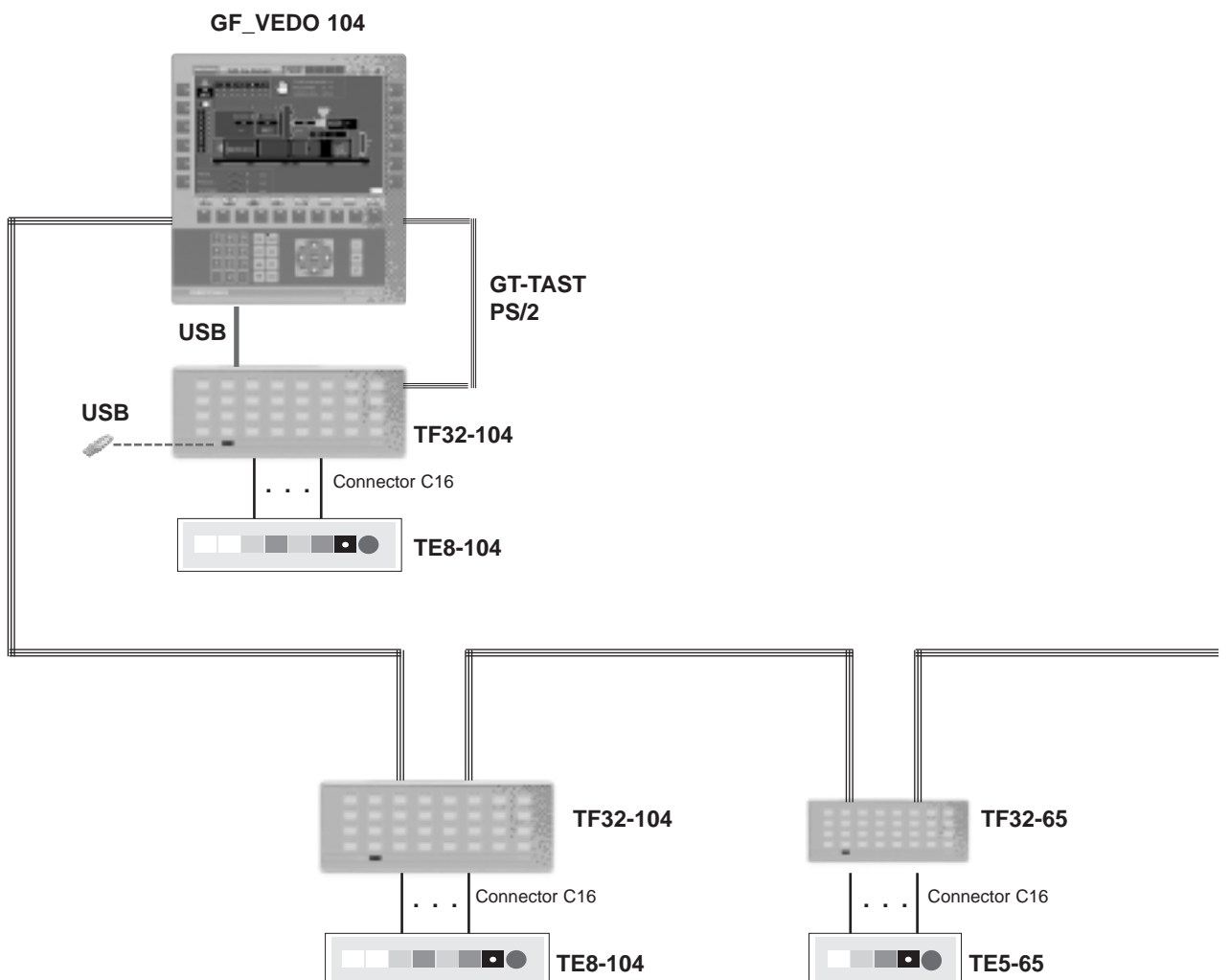
### TE5-65 Cards Standard



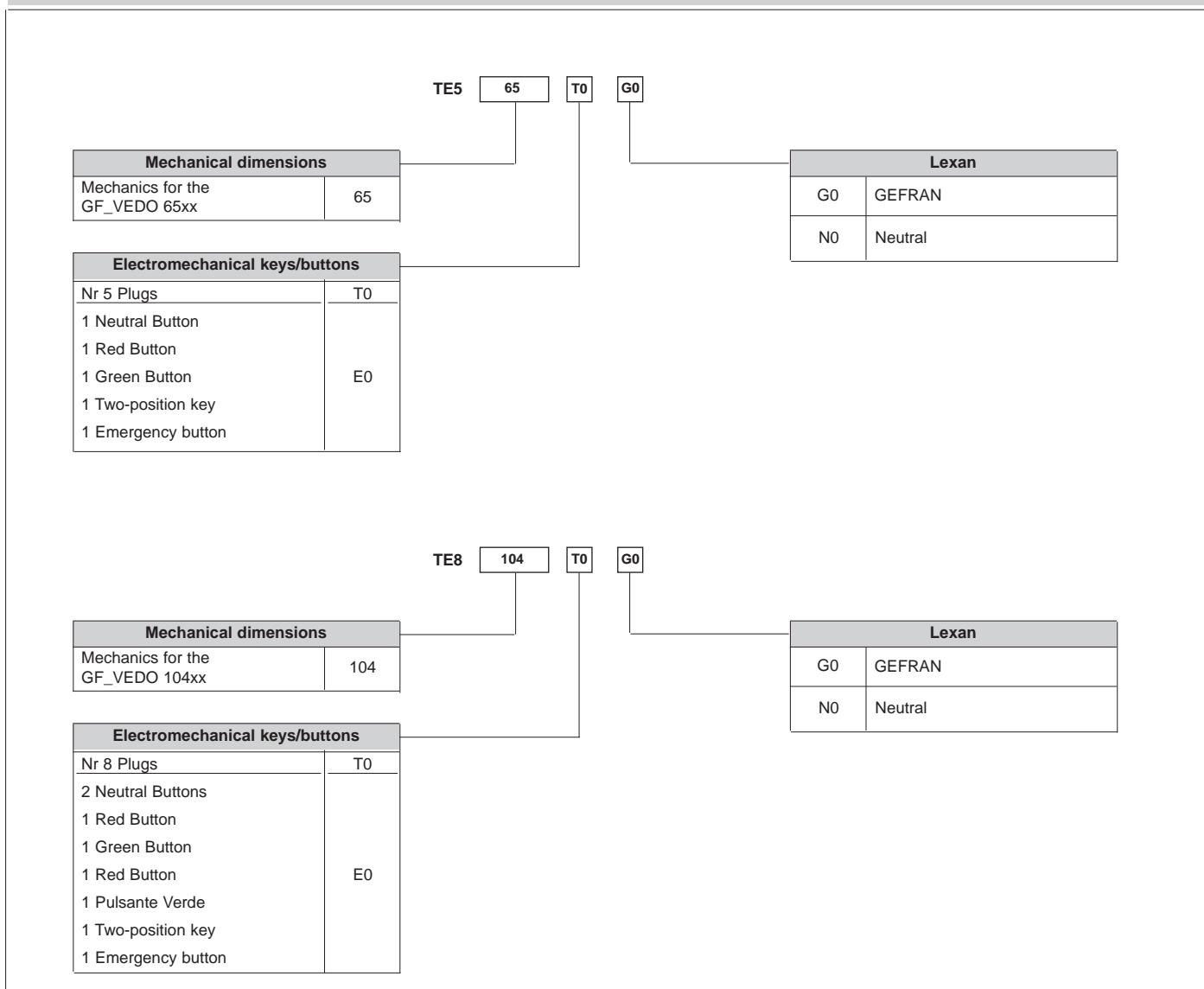
### TE8-104 Card



## CONNECTION EXAMPLE



## ORDER CODE



GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior 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

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