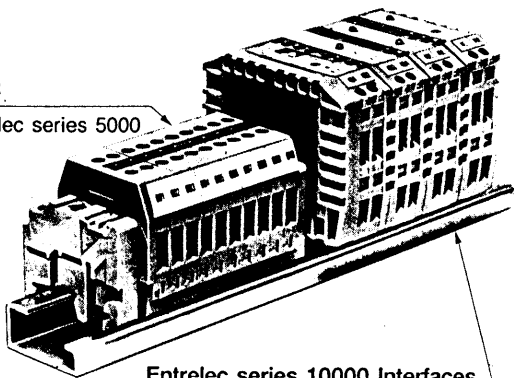# Presentation

Applications

The series 10000 unables the packaging of an electronic interface in a standard terminal block module.

Control circuit :

example : Entrelec series 5000

Entrelec series 10000 Interfaces

examples : Rectifier 220 V ~ a-c
24 V = d-c relay
Alarm circuit

2 types of blocks are available :
* **empty blocks** giving the user choice of design
* **equipped blocks :** many circuits in stock (see page 8).
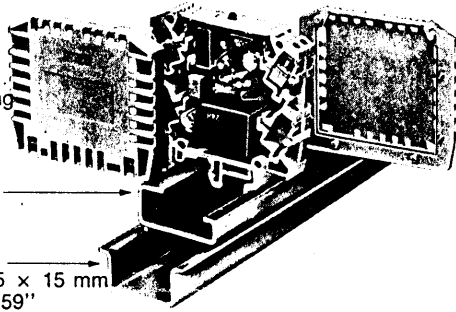 Compression clamp connection only for equipped blocks.

Description

Unit is moulded of grey polyamide, made out of 3 parts (see page 4).
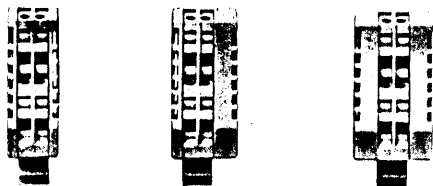
Compression clamp mounting on standard rails :

EN 50035 - DIN 46277/1
NFC 63018   32 × 15 mm
1.26" × .59"

EN 50022 - DIN 46277/3
NFC 63015   35 × 7.5 or 35 × 15 mm
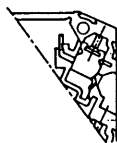1.38" × 2.95" or 1.38" × .59"
(see page 21).

3 possible body sizes :

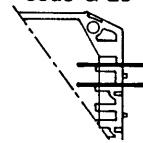with 1 unit + 2 plates of different thicknesses (see page 4).

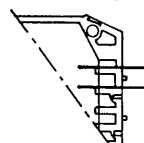**5 types of connection** (many possible combinations)
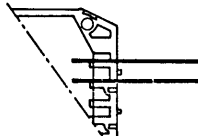(see page 5).

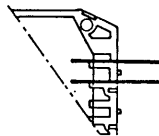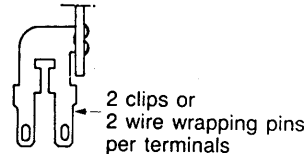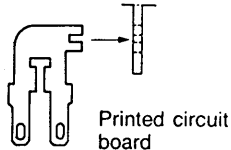| Compression clamp code A	Quick connect tabs series 110 (2,8 × 0,8 mm) code G 28	Quick connect tabs serie 110 (2,8 × 0,5 mm) code G 25

Wire wrapping code M	Wire mini wrapping code Mm

Each terminal is equipped with 2 pins for soldering on printed circuit board.

Printed circuit board

2 clips or
2 wire wrapping pins per terminals

2 types of printed circuit board (see page 20).

Copper card for small series   Prepunched card for prototype
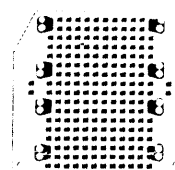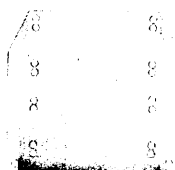
2 types of marking for the connection terminals

1 - pre-marked on the units by letters

2 - housing for complementary marking (see page 22).

Housings for marking
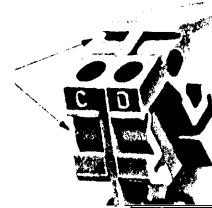
How to select a terminal block
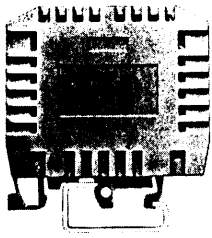
Rail : PR1 - EN 50035

left   right

* When the connection method is the same for both sides, only fill in one space.
** When one or both sides are fully equipped, do not fill in this space.

❶ ❷ ❸* ❹** ❸* ❹** ❺

type of unit

spacing

connection method on **left side**

position of terminals on **left side**

connection method **right side**

position of terminals on **right side**

top output, for quick connect

Examples

❶ ❷ ❸ *·**

EBS   23   A

** Fully equipped block with same method of connection on both sides

standard unit
spacing .91" (23 mm)

screw/screw connection

---

❶ ❷ ❸** ** ❸**

EBS   18   A   G25

** Both sides are fully equipped.

standard unit
spacing .71" (18 mm)
screw connection on **left side**

quick connect
serie 110 (2,8 × 0,5 mm)
on **right side**

---

❶ ❷ ❸ ❹ ❸ ❹ ❺

EBC   28   G28   ABCD   Mm   JKLM   G6

unit with top output for quick connect
spacing 1.10" (28 mm)

quick connect tab serie 110 (2,8 × 0,8 mm) on **letf side**

position of terminals on **left side**

miniature wrappings on **right side**

position of terminals on **right side**

top output for quick connect

The type of unit ❶

Standard unit "EBS"

Unit with 2 outputs for quick connect "EBC"

1 hole
for an indicator
or potentiometer, etc.

2 outputs for quick connect tabs
1 × serie 250 (6,3 × 0,8 mm)
2 × serie 110 (2,8 × 0,8 mm)

0 3,5

Unit with 4 holes "EBP"

for indicators
or potentiometer, etc.

0 3,5

10,16 10,16
40   40

Space requirements

blocks with screw connection "A"

on EN 50035 rail

on EN 50022 rail 35 x 15 mm

on EN 50022 rail 35 x 7,5 mm

space requirements:

with quick connect code G
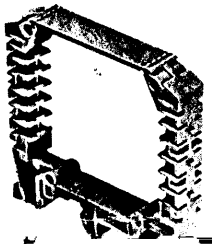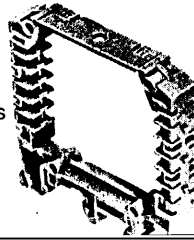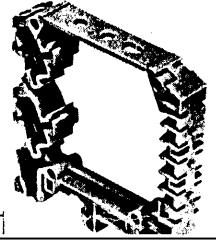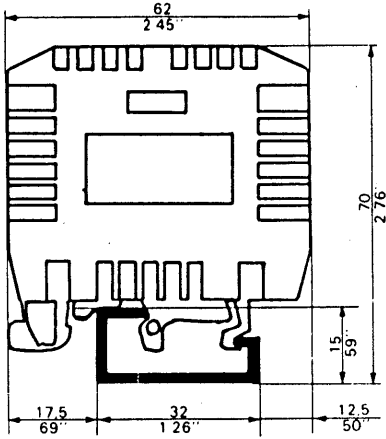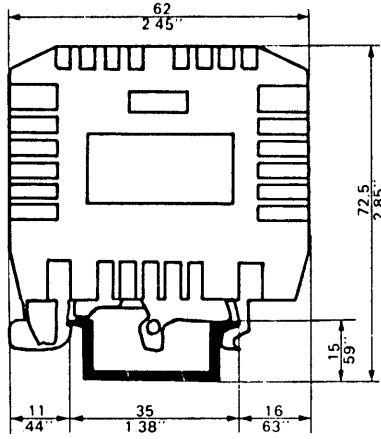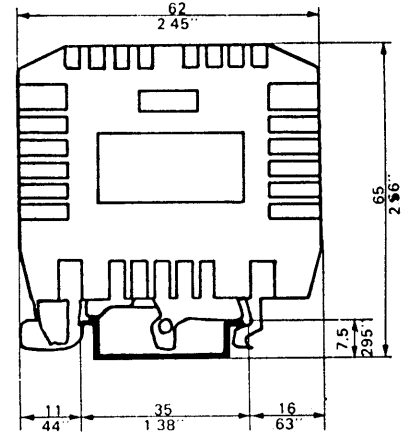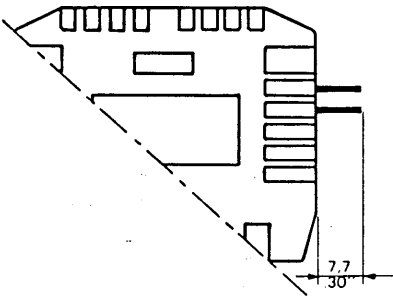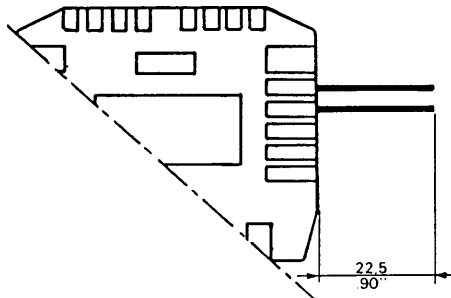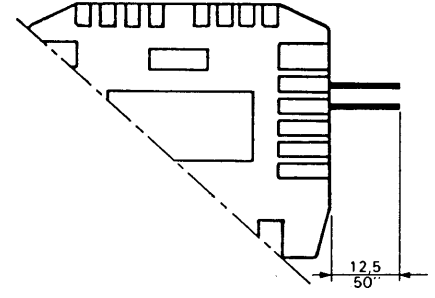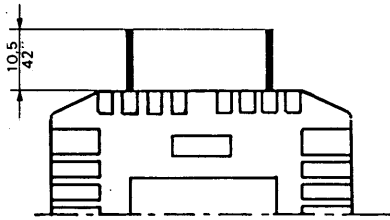
with standard wrapping code M
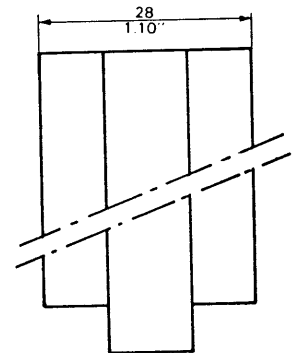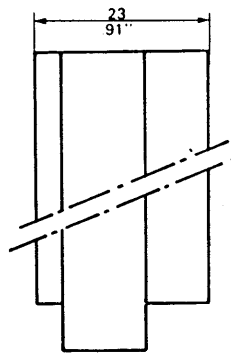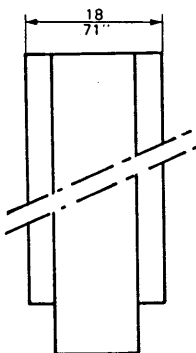
with mini wrapping code Mm

Blocks with quick connect on the top (type EBC)

2 outputs for quick connect tabs
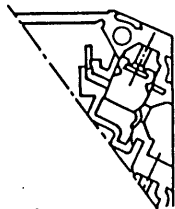1 x serie 250 (6,3 x 0,8 mm)
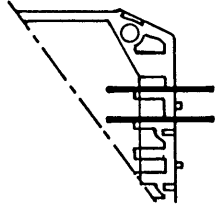2 x serie 110 (2,8 x 0,8 mm)

spacing

The connection ❸

Screw terminals blocks 8 terminals. Screw/Quick connect or wrapping blocks : 4 screw terminals, 6 double terminals with quick connect or wrapping.
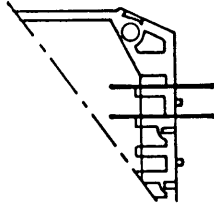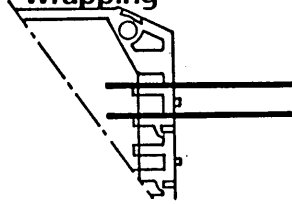Quick connect or wrapping blocks : 12 double terminals with quick connect or wrapping
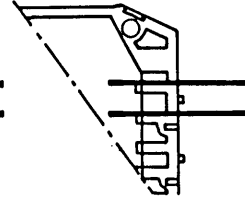
A Screw	G 28 serie 110 (2,8 x 0,8 mm)	G 25 serie 110 (2,8 x 0,5 mm)	M Standard wrapping	Mm Mini Wrapping

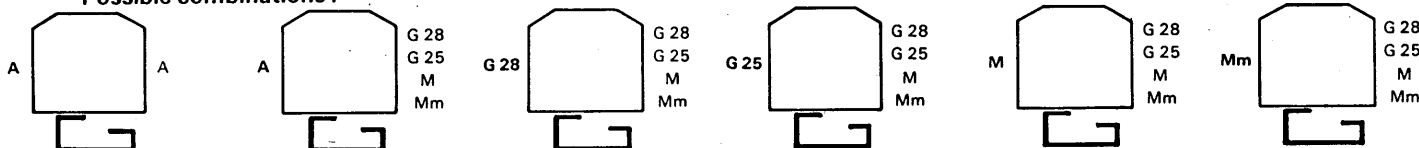| Connection					
	1 screw terminal HO 7 VR 4 mm²	2 x Quick connect tabs serie 110 (2,8 x 0,8 mm)	2 x quick connect tabs serie 110 (2,8 x 0,5 mm)	2 x 2 wrappings .030"x.060" (0,78 x 1,52 mm)	2 x 2 wrappings .022x.028" (0,56 x 0,71 mm)
	HO 7 VK 2,5 mm²	0,3 to 1,5 mm²	0,3 to 1,5 mm²	DIA. of wire .016" to .03" (0,41 to 0,8 mm)	DIA. of wire .010"x.015" (0,25x0,40mm)
	AWG 20 to 12	22 to 16 AWG	22 to 16 AWG	26 to 20 AWG	30 to 26 AWG
	wire stripping length .27" (7 mm) recommended screwdriver DIA .14" (3,5mm)	(1) Insulated quick connect (2) red pre-insulated quick connect	(1) Insulated quick connect (2) red pre-insulated quick connect		

Characteristics*					
	NFC 20040 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Cat. C NFC 63065 250	NFC 20040 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Cat. C NFC 63065 50-75	NFC 20040 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Cat. C NFC 63065 50-75	NFC 20040 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Cat. B NFC 63065 125	NFC 20040 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Cat. C NFC 63065 250
	VDE 0110 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Group C 250-300	VDE 0110 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ 60-75 (1) Group C 30-36 (2)	VDE 0110 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ 60-75 (1) Group C 30-36 (2)	VDE 0110 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Group C 125-150	VDE 0110 $\underset{\sim}{a\text{-}c}$ v $\underset{=}{d\text{-}c}$ Group C 250-300
	CSA - UL 22-2 n° 14	CSA - UL 22-2 n° 14	CSA - UL 22-2 n° 14	CSA - UL 22-2 n° 14	CSA - UL 22-2 n° 14

(*) Stocking temperature : – 40° F to + 212° F ; – 40° C to + 100° C.
Note : The quick connect tabs can be used for a soldered connection.

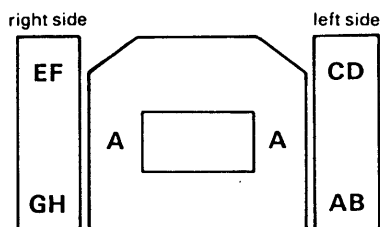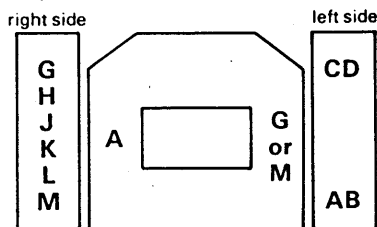**Possible combinations :**

Terminal positions ❹

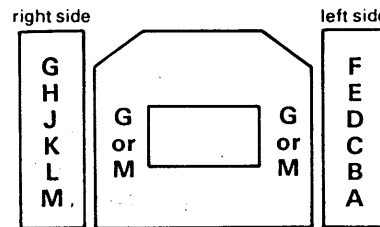The pre-marking shown on the units permits positioning of the terminals according to requirements.

Blocks with screw on both sides

Blocks with quick connect or wrapped connection

Blocks with quick connect or wrapping/quick connect or wrapping

Top output for quick connect ❺

(2 outputs marked 1 and 2 on the unit). Only the EBC unit can be used.
2 tabs compatible for 1 x serie 250 (6,3 x 0,8 mm) or 2 x serie 110 (2,8 x 0,8 mm) quick connect (see type of unit page 4).

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