DUALBLOCK® SISTEMS FOR TWO-DOORS INTERLOCK
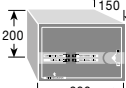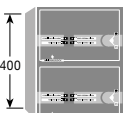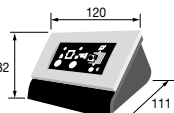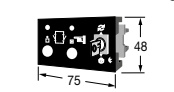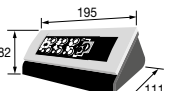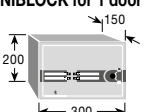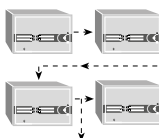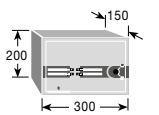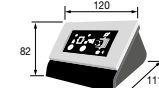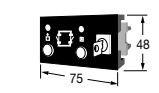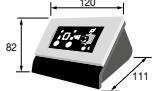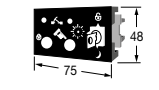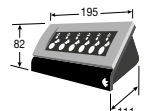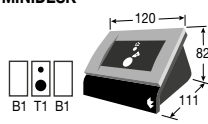
Electronic system to provide 2-door mutual-acknowledgment interlocking access, so that, for example, the 2nd door is locked after the 1st one is closed (and vice-versa).
The system named "1 bidirectional TUNNEL" (two-ways transit) is basically composed of: 1 DUALBLOCK® control panel + 1 DUALDESK remote desktop console (see below).
In addition 4 DUALUX top/go displays and/or DUALVOX intercom + accessories (see pertinent sheets).

DUALBLOCK® CONTROL PANEL WITH "INTERLOCK" LOGIC

TECHNICAL CHARACTERISTICS
Control panels in heavy duty metallic cabinet for wall mounting.
Battery compartment to hold 1 battery at 12Vdc/6Ah or 2 batteries 12Vdc/1,9Ah.
Front panel with key selector for on/off alarm, power indicating led, individual door status led, alarm led

PROGRAMMABLE FUNCTIONS
● Logic operating circuits   ○ Commands & visual indications

	1 TUNNEL "bidirectional" management 2 doors interlock	2 TUNNEL with 4 doors (2+2) 1 tunnel "entrancy" + 1 tunnel "exit"	AUTO/MANUAL FUNCTIONS	LOCKING permanent locking of both doors	UNLOCKING both doors temporarely unlocked (emergency)	TIMED OPENING COMMAND for each door with auto-relok (field adjustable 1÷20 sec)	AUTOMATIC RE-LOCK PROGRAM for electrical locks (fail-secure or fail-safe)	"LAST EXIT" MODE	MONO/BIDIRECTIONAL SELECTABLE MODE	MOTORIZED DOORS CONTROL for automatic doors	GENERAL DOOR ALARM -immediate when 2 doors open -timed (adjustable 15÷30 sec) when ● general relay 1 SPDT contact ○ general buzzer	BATTERY CHARGER 1 unit at 12Vdc/2,7Ah (24Vdc/1,5Ah) 2 units at 12Vdc/2,7 Ah (24Vdc/1,5Ah)	Ordering information MODELS		Q.ty N°
DUALBLOCK® 1 tunnel (200 × 300 × 150)	●	---	●	●	●	●	●	●	●	●	●	12V (1)	**034722E**	batteries not included	
	●	---	●	●	●	●	●	●	●	●	●	24V (1)	**034724E** (by request)		
DUALBLOCK® 2 tunnel (400)	---	●	●	●	●	●	●	●	●	●	●	12V (2)	**034742E**	batteries not included	
	---	●	●	●	●	●	●	●	●	●	●	24V (2)	**034724E** (by request)		

"DUALDESK" DESKTOP CONSOLES FOR DOOR OPENING COMMAND

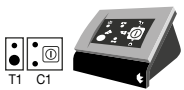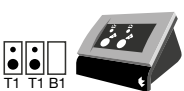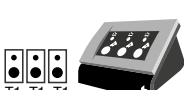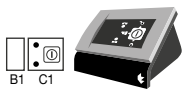Multipurpose consoles for desktop use or convertible (up side-down) into wall mounting panel-stand. Shock-proof plastic housing with metallic front plate.

OPERATING FUNCTIONS
○ Commands & visual indications   △ Locking, in alternative unlocking (see note 1)

Dualdesk "1 tunnel" (195 × 82 × 111)	○	---	○	○	○	○	---	○	○	---	○	12/24V	**034750**		
Dualdesk "1 tunnel" without housing (100 × 48)	○	---	○	○	○	○	---	○	○	---	○	12/24V	**034750G** (none housing)		
Minidualdesk "1 tunnel" (120 × 82 × 111)	○	---	○	△	△	○	---	---	---	---	○	12/24V	**034752**		
	○	---	○	△	△	○	---	---	---	---	○	12/24V	**034752Y**		
Minidualdesk "1 tunnel" without housing (75 × 48)	○	---	○	△	△	○	---	---	---	---	○	12/24V	**034752G** (none housing)		
	○	---	○	△	△	○	---	---	---	---	○	12/24V	**034752GY** (none key)		
Duplodesk "2 tunnel" (195 × 82 × 111)	---	○	○	△	△	○	---	---	---	---	○	12/24V	**034756M2**		
	---	○	○	△	△	○	---	---	---	---	○	12/24V	**034756M2Y** (none key)		

ACCESSORIES (optional) For the consoles listed above	**Phone receiver independent PH** (separate) table and/or wall intercom handset.	**S034858F**	
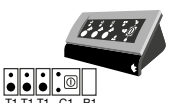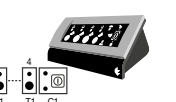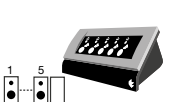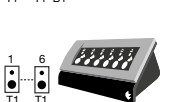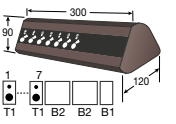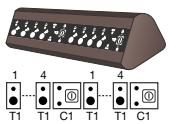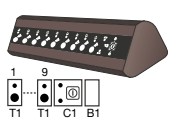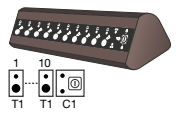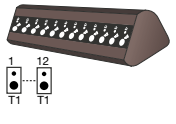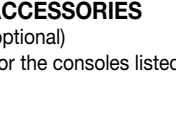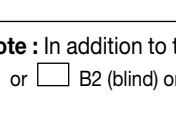
Note 1: The auto-manual key selector built-in on Minidualdesck console (Mod. 034752) operates as "simultaneous locking" command of both doors (or in alternative as "unlocking" command).
If both lock/unlock functions are required to be present, in alternative should be used Dualdesk (Mod. 034750) or additional key selector (for example, housed into Dualblock® control panel).
Note 2: The published product do **not include** the batteries (at your care). Must be used specific rechargeable batteries "lead sealed type" (typycal type for alarm systems).

DOOR MANAGEMENT SYSTEMS

UNIBLOCK & MULTIBLOCK SYSTEMS

TECNODIMENSIONE®

For 1 door management or multiple door interlocking logic

Control of electrical drop bolts and/or door strikes (both fail-secure and fail-safe). Stop/go displays supervision.
Timed opening command with automatic re-lock/unlimited temporary de-activation/or block of locking functions.
Ideal solution for Banks, Post Offices, Security rooms, etc.

TECHNICAL CARACTERISTICS

Control panels in heavy duty metallic cabinet for wall mounting. Battery compartment to hold 1 battery at 12Vdc/6Ah or 2 batteries 12Vdc 1,9Ah. Front panel with key selector for on/off alarm, power indicating led, individual door status led, alarm led.

PROGRAMMABLE FUNCTIONS
● Logic operating circuits ○ Commands & visual indications

Columns (left to right):
1. DOOR "TIMED" OPENING COMMAND with auto-relock (field adjustable 1÷20 sec)
2. AUTOMATIC RE-LOCK PROGRAM for electrical locks (fail-secure and fail-safe)
3. TAMPER PROTECTION in standby, the bolt sensor is not affected
4. COURTESY SERVICE electronic key override with timed unlock and auto re-lock
5. INSTANT DOOR LOCKING to prevent any access
6. DOOR UNLOCKING for free passage (escape mode) a = immediate b = delayed (adjustable 1÷20 sec)
7. GENERAL ALARM - surveillance - time-out door signal - anti-tampering alarm
8. IMPROPER USE ALARM (of emergency door) panic-bar pushed
9. REMOTE INDICATIONS for door status (open/closed)
10. INTERLINK CONNECTION 2 or more doors interlock
11. BUILT-IN BATTERY-CHARGER 12Vdc/2,7Ah (24Vdc/1,5Ah)

1	2	3	4	5	6	7	8	9	10	11	MODELS	Ordering information	Q.ty N°
"UNIBLOCK" CONTROL PANEL FOR 1 DOOR MANAGNEMENT													
●	●	●	●	●	● a	●	---	●	●	12V	**034712**	batteries not included	
●	●	●	●	●	● a	●	---	●	●	24V	**034714** (by request)		
By request: PCB printer circuit mather board "alone" - dim. 180x115mm (without power supply and without housing)											**S034712GS**		
"MULTIBLOCK" CONFIGURATION FOR SEVERAL DOORS											(1 per each door) **034712**	batteries not included	
By connecting a UNIBLOCK control panel with others one, can easily create a sequential system of multiple interlocking doors (2... 4... 8... 12, or as many as desired), all controlled by a single operator, who controls access through the command console as the visitor passes through the obligatory route.											**S034712GS** ("visible" configuration)		

PANICBLOCK SYSTEMS

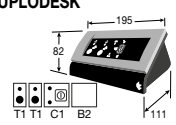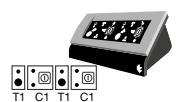| 1	2	3	4	5	6	7	8	9	10	11	MODELS		Q.ty N°
"PANICBLOCK" CONTROL PANEL FOR 1 EMERGENCY DOOR MANAGEMENT Protects against improper use of escape doors. Immediate or delayed opening of the door programmable with or without alarm.													
●	●	●	●	●	● a + b	●	●	●	●	12V	**034762**		
●	●	●	●	●	● a + b	●	●	●	●	24V	**034764** (by request)		
By request: PCB printer circuit mather board "alone" - dim. 180x115 mm (without power supply and without housing)											**S034762GS**		
"UNIDESK" DESKTOP CONSOLE Compact unit to be connected to Uniblock panel to control 1 door.										Oper. Vdc			
○	---	---	---	○	○ a	○	---	○	---	12/24V	**034751**		
○	---	---	---	○	○ a	○	---	○	---	12/24V	**034751G** (none housing)		
"PANICDESK" DESKTOP CONSOLE Compact unit to be connected to Panicblock panel to control 1 emergency door.													
○	---	---	---	○	● a + b	○	○	○	---	12/24V	**034760**		
○	---	---	---	○	● a + b	○	○	○	---	12/24V	**034760G** (none housing)		
"MULTIDESK" DESKTOP CONSOLES TO CONTROL MULTIPLE CONFIGURATION OF 2... 3... 4... DOORS AND OVER To be connected both UNIBLOCK or PANICBLOCK systems (see a complete desktop range in the proper price list sheets "BRICKYDESK").											(by request)		
ACCESSORIES (optional) For the consoles listed above	Phone receiver independent PH (separate) table and/or wall intercom handset.										**S034858F**		

DOOR MANAGEMENT SYSTEMS

UNIBLOCK for 1 door — 150 / 200 / 300
PANICBLOCK for 1 door — 150 / 200 / 300
UNIDESK for 1 door — 120 / 82 / 111
UNIDESK without housing — 48 / 75
PANICDESK for 1 door — 120 / 82 / 111
PANICDESK without housing — 48 / 75
MULTIDESK — 195 / 82 / 111

Note: The published products do **not include** the batteries (at your care). Must be used specific rechargeable batteries "lead sealed type" (typycal type for alarm systems).

BRICKYDESK DESKTOP CONSOLES FOR DOORS MANAGEMENT

TECNODIMENSIONE®

TECHNICAL CHARACTERISTICS	N° .... OF DOORS TO BE MANAGED	N° ... DOOR PUSH-BUTTONS with N.O. contact → N.C. (pushing the button)	EXTENDABLE UP TO N° .... of doors	N° ... OF BLIND UNITS for future extensions	OPERATING VOLTAGE Vdc	POWER CONSUMPTION mA	N° .... OF VISUAL INDICATORS G/R = 1 LED green/red bifunc. G = 1 LED green R = 1 LED red Y = 1 LED yellow (by request)	N° .... OF KEY SELECTORS "C" 3 release positions (for example lock/unlock) etc.	Ordering information MODELS		Q.ty N°
MINIDESK 120 / 82 / 111 / B1 T1 B1	1	1T	3	2	12V	15	1 V/R	---	**034753T1B2**		
T1 C1	1	1T	---	---	12V	30	1V/R + 1V + 1R	1C	**034753T1C1**		
T1 T1 B1	2	2T	3	1	12V	30	2 V/R	---	**034753T2B1**		
T1 T1 T1	3	3T	---	---	12V	45	3 V/R	---	**034753T3**		
B1 C1	1	---	1	1	12V	30	1V + 1R	1C	**034753C1B1**		
ACCESSORIES (optional) For the consoles listed	**Phone receiver independent PH** (separate) table and/or wall intercom handset.								**S034858F**		
	Microtimer module for temporized (5 sec or 10 sec) opening command for one door equipped with low-consumption door striked or any Tecnodimensione electrical bolt (excluded Maxilock). The Microtimer should be placed inside into any of above consoles, as many you need to control up to 4 doors maximum.								**035902.... x n°.....** one module for each door		

Note : In addition to the listed models, by request several others combined consoles should be realized "as mosaic-work" using BRICKY units B1 ☐ or ☐ B2 (blind) or, ⦂ S1 ⦂ S2 with Leds, or ⦂ T1 with push-button, or ⦂⊚ C1 with key-selector, and so on (see the specific sheet "BRICKY).

DOOR MANAGEMENT SYSTEMS

BRICKYDESK DESKTOP CONSOLES FOR DOORS MANAGEMENT

TECNODIMENSIONE ®

Ordering information

TECHNICAL CHARACTERISTICS

Multipurpose consoles for desktop use or convertible (up side-down) into wall mounting panel-stand. Shock-proof plastic housing with metallic front plate.

N°.... OF DOORS TO BE MANAGED	N°... DOOR PUSH-BUTTONS with N.O. contact → N.C. (pushing the button)	EXTENDABLE UP TO N° .... of doors	N° ... OF BLIND UNITS for future extensions	OPERATING VOLTAGE Vdc	POWER CONSUMPTION mA	N°.... OF VISUAL INDICATORS G/R = 1 LED green/red bifunc. G = 1 LED green R = 1 LED red Y = 1 LED yellow (by request)	N°.... OF KEY SELECTORS "C" 3 release positions (for example lock/unlock) etc.	MODELS	Q.ty N°
DUPLODESK									
2	2T	4	2	12V	45	2V/R + 1V + 1R	1C	**034756T2C1B**	
2	2T	---	1	12V	60	2V/R + 2V + 2R	2C	**034756T2C2**	
3	3T	4	1	12V	60	3 V/R + 1V + 1R	1C	**034756T3C1B**	
4	4T	---	---	12V	75	4V/R + 1V + 1R	1C	**034756T4C1**	
5	5T	6	1	12V	75	5V/R	---	**034756T5B1**	
6	6T	---	---	12V	90	6V/R	---	**034756T6**	
MAXIDESK									
7	7T	12	5	12V	105	7V/R	---	**034757T7B5**	
8	8T	---	---	12V	150	8V/R +2V + 2R	2C	**034757T8C2**	
9	9T	10	1	12V	150	9V/R + 1V + 1R	1C	**034757T9C1B**	
10	10T	---	---	12V	165	10V/R + 1V + 1R	1C	**034757T10C1**	
8	8T	12	4	12V	120	8V/R	---	**034757T8B4**	
9	9T	12	3	12V	135	9V/R	---	**034757T9B3**	
10	10T	12	2	12V	150	10V/R	---	**034757T10B2**	
11	11T	12	1	12V	165	11V/R	---	**034757T11B1**	
12	12T	---	---	12V	180	12V/R	---	**034757T12**	

ACCESSORIES (optional) For the consoles listed

Phone receiver independent PH (separate) table and/or wall intercom handset. — **S034858F**

Microtimer circuit for the timed opening of 1 door (if 1 electrical door strike or Minilock or Microlock electrical drop bolt is available). The circuit can be used with any of the consoles specified. It is possible to install from 1 to 12 circuits, depending on the number of doors to control. — **035902.... x n°....** one module for each door

Note : In addition to the listed models, by request several others combined consoles should be realized "as mosaic-work" using BRICKY units B1 ☐ or ☐ B2 (blind) or, S1 S2 with Leds, or T1 with push-button, or C1 with key-selector, and so on (see the specific sheet "BRICKY).

DOOR MANAGEMENT SYSTEMS

BRICKY — FREELY ASSEMBLYING MODULES TO PERFORM DESKTOP AND RACK CONSOLES

TECNODIMENSIONE ®

DOOR MANAGEMENT SYSTEMS

TECHNICAL CHARACTERISTICS

Multifunctional modules freely combined "as mosaic-work". Complete with print circuit equipped with screw terminals for fast wiring connection.

Ordering information

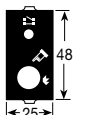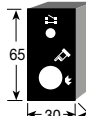|	SINGLE UNIT MODULE	DOUBLE UNIT MODULE	"BLIND" MODULE (multipurpose)	FOR FLUSH MOUNTING into frame	SURFACE MOUNTING with black alluminum housing	OPERATING VOLTAGE Vdc	POWER CONSUMPTION mA	COMMAND PUSH BUTTON "T" with N.O. correct → N.C. (pushing the button) 1A/12V rated	VISUAL INDICATORS G/R = 1 led bifunctional G = 1 led green R = 1 led red Y = 1 led yellow (by request)	KEY SELECTOR "C" with 3 release positions	BUZZER	MODELS		Q.tY N°
BRICKY T1	●	---	---	●	---	12V	15	1T	1 V/R	---	---	**034753T1**		
BRICKY T1A	●	---	---	---	●	12V	15	1T	1 V/R	---	---	**034753T1A**		
BRICKY S2	●	---	---	●	---	12V	15	---	1V + 1R	---	---	**034753S2**		
BRICKY S2A	●	---	---	---	●	12V	30	---	1V + 1R	---	---	**034753S2A**		
BRICKY S1	●	---	---	●	---	12V	15	---	1 V/R	---	---	**034753S1**		
BRICKY S1A	●	---	---	---	●	12V	15	---	1 V/R	---	---	**034753S1A**		
BRICKY C1	---	●	---	●	---	12V	30	---	1V + 1R	1C	●	**034753C1**		
	---	●	---	●	---	12V	30	---	1V + 1R	1C	---	**034753C1Y**		
BRICKY B1 B2	●	---	●	●	---	---	---	---	---	---	---	**034753B1**		
	---	●	●	●	---	---	---	---	---	---	---	**034753B2**		
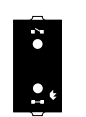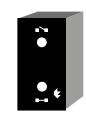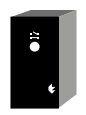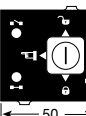
BRACKETS & AUXILIARY FRAMES FOR FLUSH MOUNTING IN PANELS OR CONSOLES
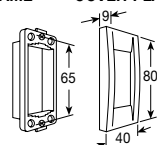
RAILS BRICKY
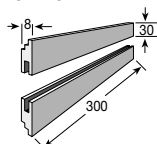
Pair of rails "with 12 spot" prepared to be receptable of BRICKY "flush" modules (up to 12 single units) to arrange any size of desktop or rack consoles.

034757P

FRAME   COVER-PLATE

Kit comprising: 1 single frame with 1 slot, mod. 034753V1T, for the insertion of 1 Bricky element with 1 slot (for example T1, S1, S2) + 1 snap-one cover plate, mod. 034753V1P, in metal with "silver" finish (or in dark grey plastic).
For recess-mounting on panels, door frames, etc.

034753V1KF
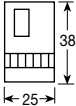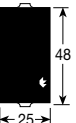(alluminum cover plate)
034753V1KG
(plastic cover plate)
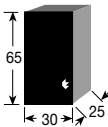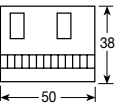
Exemple: desktop console performed by you using BRICKY modules "as mosaic-work".
For pre-assembled combinations, see specific sheets "BRICKYDESK CONSOLES".

MICRORELEX "MULTIFUNCTIONAL" MINIATURE RELAY MODULES

TECNODIMENSIONE®

TECHNICAL CHARACTERISTICS
Multipurpose modules, microboard execution with screw terminals for fast wiring connections. Ideal as auxiliary actuations, interface for existing installations.

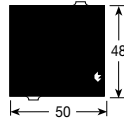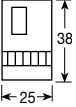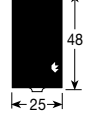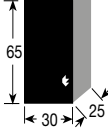| SINGLE UNIT MODULE	DOUBLE UNIT MODULE	FOR FLUSH MOUNTING into frame	SURFACE MOUNTING with black aluminium housing	"PRINT CIRCUIT" EXECUTION (without box)	OPERATING VOLTAGE Vdc	POWER CONSUMPTION mA	1 AMPLIFIED RELAY activation by "low level" signal -5 mA/12V P = with positive input + N = with negative input -	1 AUTOCONTROLLED RELAY activation with variable signal from 8 up 12Vac (alternative voltage)	2 PROGRAMMABLE RELAYS - each stand-alone (separated inputs) - tandem (commun input command)	1 TEMPORIZED RELAY (adjustable 1 ÷ 60 sec) programmable	CONTACT OUTPUTS changeover SPDT - 1A/12V	MODELS	Q.ty N°

MICRORELEX R1

It is a smale relay unit with amplified input circuit to be drove by any low lever signal (either positive or negative 12Vdc). Execution and dimensions like single unit Bricky module.

"pcb"

| | | | | ● | 12V | 20 | 1P | | | | ● | 035812P |
| | | | | ● | 12V | 20 | 1N | | | | ● | 035812N |

Bricky execution R1

| ● | | ● | | | 12V | 20 | 1P | | | | ● | 034753R1P |
| ● | | ● | | | 12V | 20 | 1N | | | | ● | 034753R1N |

Bricky execution R1A

| ● | | | ● | | 12V | 20 | 1P | | | | ● | 034753R1PA |
| ● | | | ● | | 12V | 20 | 1P | | | | ● | 034753R1NA |

MICRORELEX R2

It is a unit with 2 small relays to be drove separetely or contemporarely (using programmable jumper setting) by standard 12Vdc input signals; or with proper interconnection, it is a latching relay with one SPDT output contact. Execution and dimensions like double unit Bricky module.

"pcb" execution

| | | | | ● | 12V | 40 | | | ● | | ● | 035822 |

flush mounting Bricky execution

| | ● | ● | | | 12V | 40 | | | ● | | ● | 034753R2 |

SPECIAL INTERFACE MODULES to upgrade condominuim entrygate

It is a smale relay unit to be drove by alternative current input signal (from 8 up to 12Vca variable voltage). It should be used as interface adapter to intercom system (old generation) typically operates on 8 ÷ 12Vca voltage. Ideal to up-grade the exting conventional condominium entrygate to be equipped with advanced **Tecnodimension**e electrical bolts Tronix version.

MICRORELEX R1C — pcb execution

| | | | | ● | 8/12 Vac | 30 | | ● | | | ● | 035811C |

flush mounting Bricky execution

| ● | | ● | | | 8/12 Vac | 30 | | ● | | | ● | 034753R1C |

surface Bricky execution

| ● | | | ● | | 8/12 Vac | 30 | | ● | | | ● | 034753R1CA |

Notes: MICRORELEX "visible" models must be installed in junction boxes and/or housings.
Bricky models can be combined with other Bricky elements (see the applicable price list under item "BRICKY") and arranged in a "mosaic" pattern on panels or consoles or even installed in the small frames with plates that are typically used with electrical switches (junction box "503").

DOOR MANAGEMENT SYSTEMS

LOGIC MODULES FOR DOOR MANAGEMENT

TECNODIMENSIONE®

Properly designed to help the installer in his job to realize easely & quickly any system to meet both simple or complex customer demands.

DOOR MANAGEMENT SYSTEMS

CHARACTERISTICS TECHNICAL
Very compact electronic board of various size to control the door opening procedure for any doors equipped with electrical bolts or electrical door strikes.
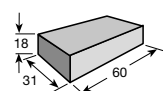
Ordering information — MODELS — Q.ty N°

| DOOR "TIMED" OPENING COMMAND with auto-relock • Field adjustable 1÷20 sec ○ Fixed 3÷5 sec (not adjustable)	AUTOMATIC RE-LOCK PROGRAM for electrical locks (fail-secure and fail-safe)	REBOUND COMPENSATION LOGIC with attemps to autorelock	COURTESY SERVICE electronic key override with timed unlock and auto re-lock	TAMPER PROTECTION in standby, the bolt sensor is not affected	DAY/NIGHT PROGRAM - unlimited unlock (day) - permanent lock (night)	REMOTE INDICATIONS OUTPUTS • door status (aligned & closed) ○ bolt status (door locked)	INTERLINK of 2 same modules • 2 doors interlock (mutual logic) ○ multiple interlock (3 or more doors)	OPERATING VOLTAGE Vdc	POWER CONSUMPTION mA	MODELS

MICROTIMER (18 / 31 / 60)

It is a micromodule (built-in onto a sealed plastic housing) that provides to open the door by a temporized command. The output is a SPDT contact 1A/12Vdc rated with programmable setting for electrical door strike or electrical bolts, magnet lock (either fail-secure of fail-safe version).

| ○ | ● | --- | --- | --- | ● | --- | --- | 12V 24V | 80 80 | 035902 035904 |

TRONIX for flush mounting (40 / 180 / 20)
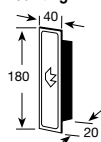
It is a "compact" micromodule SMD execution for universal 12V or 24Vdc operating voltage. Multifunctional device to be used to control and drive any electrical bolts, magnetic lock, on "Z" setting (either fail-secure or fail-safe version).
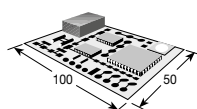
| ● | ● | ● | --- | ● | ● | ●○ | ● | 12V 24V | 80 | 035952 |

LOGICAL CARDS
FOR DOOR INTER-SIGNALLING WITH ACKNOWLEDGMENT

PHARMABLOCK (100 / 50)

Ideal for clean rooms, anti-contamination changing rooms used, pharmaceutical laboratories, research departments and controlled areas.

Logical card in Print Mather Board execution (without housing) prepared to manage with visually lights (without locks) the interdependence of 2 doors + 2 doors with presence control (changing room in use).
Alarm relay for simultaneously opened doors. 12VDC/100 mA power supply.

034742H

Note: the selling of these module are dovoted to specialised installers and is used to interface the systems present in clean rooms.
Pharmablock control units for several zones with preset logics are also available on request (see below).

PHARMABLOCK TECNODIMENSIONE
door management devices and systems for *"Clean Room"*
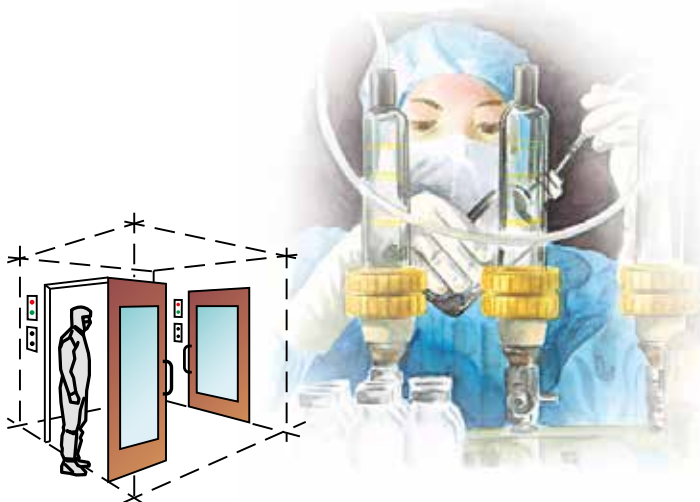
The specified documentation Clean-Room in "Clik&Go" version or Flexicon version.