FERMAX

225 Solutions

450 SERIES

UNIVERSAL

410 SERIES

3000 SERIES

500 SERIES

620 SERIES

520 SERIES

2001 SERIES

2005 SERIES

2003 SERIES

NGB SERIES

6000 SERIES

480 SERIES

490 SERIES

DOOR LOCK RELEASE

GENERAL CATALOGUE

HEAD OFFICE
U1, 37-39 Green St,
Banksmeadow, NSW. 2019
p. 61 2 9700 1700
f. 61 2 9700 1955
sales@fermaxaus.com.au

QLD OFFICE
U11, 8 Fortitude Cres,
Burleigh Heads, QLD. 4220
p. 61 7 5520 2266
f. 61 7 5520 4591
qld@fermaxaus.com.au

VIC OFFICE
U30, 640-680 Geelong Rd,
Brooklyn, VIC. 3012
p. 61 3 9314 2220
f. 61 3 9314 7772
vic@fermaxaus.com.au

WA OFFICE
U2, 26 Gibberd Rd,
Balcatta. 6914
p. 61 8 9240 2624
wa@fermaxaus.com.au

SA/NT OFFICE
PO Box 161
Torrensville Plaza. 5031
m. 61 438 700 811
sa@fermaxaus.com.au

NZ OFFICE
PO Box 112 110
Penrose. 1642
m. 64 27 566 0222
p. 64 9 337 6229
nz@fermaxnz.co.nz

fermax aus.com.au nz.co.nz

WARRANTY

All Fermax products have a 24 months warranty.

Fermax obligation under this warranty, however, is expressly limited (at Fermax option) to replacing, repairing, or issuing credit for any product returned to FERMAX within 24 months from date of shipment by FERMAX.

This warranty does not cover problems arising due to causes with the equipment (for example deficiencies in installation or incorrect wiring), nor breakdowns caused by incorrect manipulation or blows.

DELIVERY

- 15 days after order confirmation and reception of payment.
- Allow 30 days for special orders.
- Every endeavour will be made by the Company to adhere to the delivery dates quoted, but such dates are only estimate and are not guaranteed neither shall they be a term of condition between the Buyer and the Company.
- The Buyer shall be responsible for arranging insurance on goods collected by their own carriers.
- Delay in delivery shall by no means entitle the Buyer to cancel the order or thereby render the Seller liable to the Buyer for any loss or expense arising from the delay unless otherwise agreed in writing.
- Ex works.

FERMAX reserves the right to modify these sales conditions. The characteristics and aesthetics of the products may be modified. The graphic representations are for informative use only.

INDEX

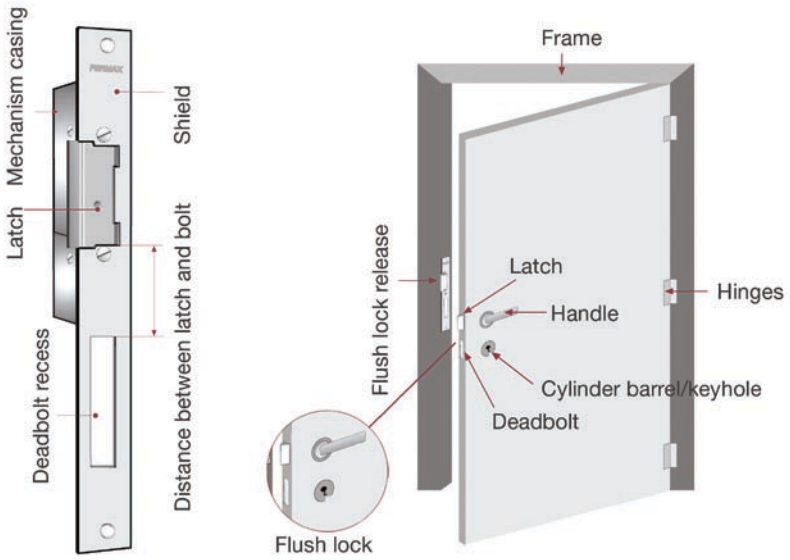
FERMAX

1. What is an electric door lock release?

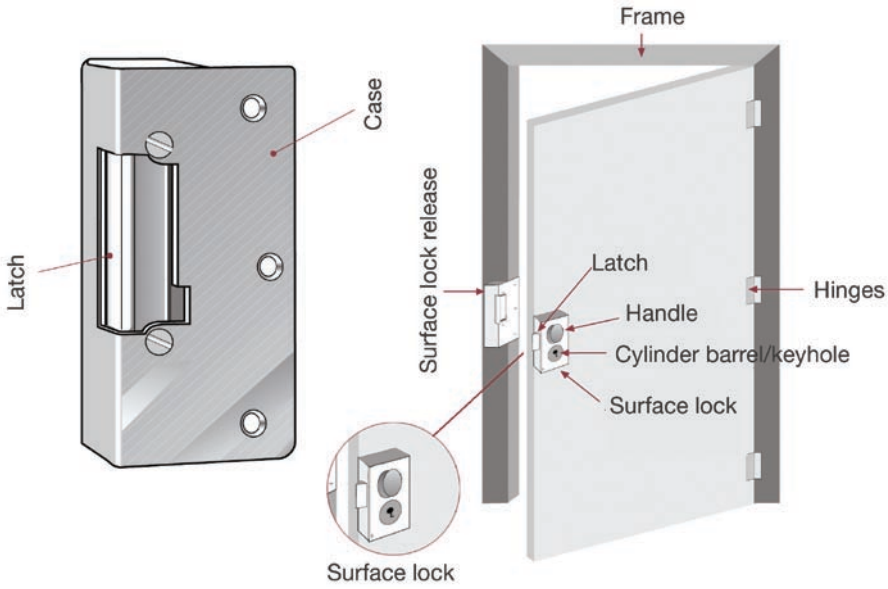
Flush
Surface

The electric door lock release is a device installed in the door frame to control opening remotely.

FLUSH LOCK



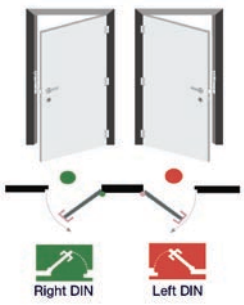
SURFACE LOCK



DIN STANDARD

DIN STANDARD sets the direction the door opens and designates the type of lock release installed. (See technical drawing).

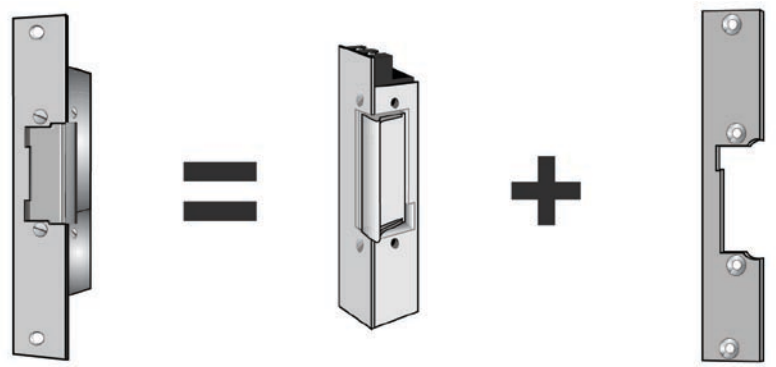
Look at the door from the side where the hinges are visible:
. If the hinges are on the left of the observer, it is a left DIN.
. If the hinges are on the right of the observer, it is a right DIN.



2. Lock release parts

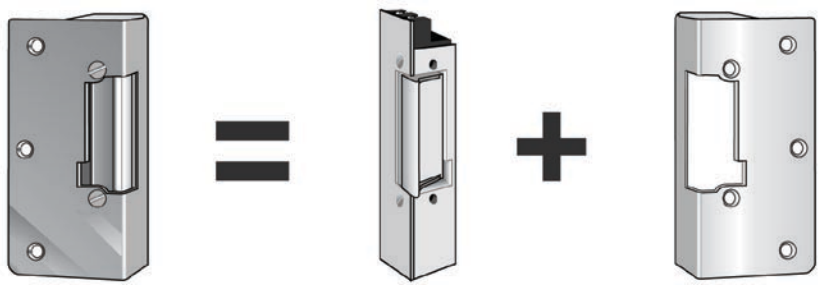
A lock release consists of an electric mechanism and a shield or case depending on whether it is flush or surface mounted.

FLUSH LOCK



Electric mechanism Shield

SURFACE LOCK



Electric mechanism Case

ELECTRIC MECHANISM

Part receiving power feed to open or close the door. Several models are available, depending on the OPERATING MODE.

SHIELD OR CASE

Metal part that converts a lock release mechanism into flush-fit (MECHANISM+SHIELD) or surface-mounted (MECHANISM+CASE).

2.1. Mechanisms

OPERATING MODES

Normal Operation - N

Allows door opening while the lock release is powered.

N	12 Vac activation
N-412	12 Vdc activation
N-424	24 Vdc activation

Automatic Operation - A or Aa

Enables door opening with a short electric pulse.

The lock release is automatically blocked when the door closes again.

A	12 Vac activation
A-412	12 Vdc activation
A-424	24 Vdc activation

Inverted operation - N-500

Allows door opening while power to the lock release is off.

N-512	12 Vdc activation
N-524	24 Vdc activation

ADDITIONAL FEATURES

Unlocking lever - D

The lock release with D in its description indicates the addition of a manual release lever which inhibits its function, allowing free access.

ND	Normal operation with release.
AD	Automatic operation with release.

Adjustable latch bolt - MAX

If the lock description contains MAX, it indicates that the latch is adjustable, allowing a perfect fit between latch and bolt in the lock, with a 4mm margin.

To order the MAX version lock release, please add an 8 to the end of the reference of the compatible lock.

2.2 Shields and Cases

SHIELDS

Used to make up lock releases that are built into the door frame.

FOR ACCESS DOORS

Wooden or metal doors

S, SX
P, PX
P22
B22

Wooden doors

53

See dimensions on page 44 and 45

FOR LATCH-BOLT ENTRY DOORS

Wooden or metal doors

GX
M, MX
L
T
GE

Wooden doors

1001
1002

CASES

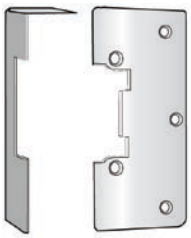
Used to make up locks to be surface mounted. There are two types of support:

VISIBLE ATTACHMENT ON FRAME

One-piece models.

- 2001 Chrome CASE
- 2006 Grey CASE

HIDDEN FRAME ATTACHMENT



Two-piece models.

- 2003 Grey CASE

One-piece models.

- 2005 Chrome CASE
- 2007 Grey CASE

See dimensions on page 46

1. Choosing the best option for your purpose

1. SECURITY LEVEL REQUIRED. Depends on the lock resistance.

STANDARD. Lock releases are resistant to impacts of up to 260 Kg (2600N). Used to cover the basic security needs of any outdoor or indoor enclosure.

REINFORCED. Support impacts up to 800 kg (8000N). For heavily transited accesses or heavy iron or wrought iron doors.

2. DOOR LOCK TYPES FLUSH or SURFACE. FLUSH or SURFACE.

3. DOOR MATERIAL WHERE LOCK IS INSTALLED.

Material used in door: aluminium, iron, wood, wrought iron, PVC or glass.

The most commonly used frames are aluminium and wood, followed by iron.

- In wooden frames, angled locks are used. For flush mounting, use Shields: 1001, 1002 and 53.
- In aluminium and PVC frames with narrow fronts, use SERIES 410. Smaller size makes it ideal for replacement since it fits any gap and its radial latch means it turns on its own opening radius.
- In heavy iron or wrought iron doors with a lot of traffic, we recommend SERIES 500, which includes a latch bolt made entirely of steel, enabling it to withstand pressures up to 800 Kg.
- For doors located outside (fences, gates, etc.) we recommend the 620 SERIES (IP65) which keeps out moisture and dust.
- For fireproof doors the fire-resistant SERIES 520 is recommended.
- For glass doors (mainly used in commercial applications) there are surface-mounted double leaf (C SERIES) or flush mounted single leaf (CII SERIES) doors with latches adapted to this type of doors.
- If the door has a deadbolt (lock release with deadbolt lock, we will indicate that these are locking doors) the best option is to install a door release with a latch/bolt recess in European DIN format, increasing the security level of the door when it is locked.

4. IF SIGNALLING IS REQUIRED

There are lock releases with C, NO and NC contact relays (Normally Open and Normally Closed NC) to identify whether the door is open or closed, by means of a micro switch in the latch.

They allow a variety of applications for security, access control and alarm installations. This function is used, among others, in security locks (the second door or gate will not open until the first is shut). *(See 3000 SERIES).*

5. POWER SUPPLY

Depending on the type of power supply, there are:

DC CURRENT. Characterized by being quiet. Inverted operation electric locks (N-500) are this type.

AC POWER SUPPLY. Noisy compared with DC locks. They generally have a higher consumption and work better indoors subject to some type of pressure: wind, bolt friction, etc.

6. TYPES OF OPERATIONS REQUIRED

NORMAL operation. Power supply to open. AC or DC power feed.

AUTOMATIC operation. One energy pulse keeps it open until the door opens and closes again mechanically. AC or DC power supply.

INVERTED operation. Power on to close. DC current.

For example: If the lock release is to be connected to a fire alarm system, it must run in inverted operation mode (N-500 operation), i.e. keeping the door open in the event of power failure and remaining closed during the time it is powered up. Under other circumstances, a lock that works as normal is needed, in N operation (Vac), or N-400 operation (Vdc), so that when the power is on, it releases the door. This performance is achieved in both AC (Vac) and DC (Vdc) systems.

(For more information, see the "Operating types" section on page 4).

2. Quick guide

FLUSH LOCK RELEASE

450 SERIES

UNIVERSAL
Symmetrical
Medium body
12Vac or 12Vdc
Allows MAX

page 16

UNIVERSAL

UNIVERSAL
Non-symmetrical
Large body
12Vac or 24Vdc
Allows MAX

page 17

410 SERIES

REPLACEMENT
Symmetrical. Small body. 12Vac or 12Vdc. European profile: 16mm MAX as standard

page 18

3000 SERIES

ACCESS CONTROL
With door sensor
Non-symmetrical
Large body
12Vac/12Vdc/24Vdc

page 19

500 SERIES

REINFORCED 800KG
Symmetrical
Medium body
12Vac or 12Vdc

page 20

620 SERIES

IP65 WATERTIGHT
Non-symmetrical
Large body
12Vac

page 21

520 SERIES

FIREPROOF
Fire resistant
Symmetrical
Medium body
12Vac or 12Vdc

page 22

460 SERIES

AMERICA
Protected bolt
Symmetrical
Body 75mm
12Vac o 12Vdc

page 23

470 SERIES

AMERICA
Protected bolt
Symmetrical
Body 85 mm
12Vac o 12Vdc

page 24

9000 SERIES

AMERICA
Protected bolt
Non-Symmetrical
Body 102 mm
12Vac o 12Vdc

page 25

850 SERIES

CERRADURA AUTOM.
Automatic operation
12Vac o 12Vdc

page 26

CII SERIES

CRYSTAL
1 leaf
Non-Symmetrical
Body 105 mm
12Vac o 12Vdc

page 27

ELECTROMAG.

ELECTROMAGNETIC
Body 233 mm
12Vdc o 24Vdc
Resistance 300kg

page 28

SURFACE LOCK RELEASE

2001 SERIES

UNIVERSAL
Visible support
Non-symmetrical
12Vac
Allows MAX

page 29

2005 SERIES

UNIVERSAL
Hidden support
Non-symmetrical
12Vac
Allows MAX

page 30

2003 SERIES

UNIVERSAL
Hidden support
Non-symmetrical
12Vac
Allows MAX

page 31

NGB SERIES

INGERSOLL
For INGERSOLL SC71 type locks
12Vac o 12Vdc

page 32

6000 SERIES

WITH LATCH/BOLT
Hidden support.
Deadbolt lock
Non-symmetrical
12Vac o 12Vdc

page 33

480 SERIES

H LOCK
Horizontal locks
12Vac o 12Vdc

page 34

490 SERIES

V LOCK
Vertical locks
12Vac o 12Vdc

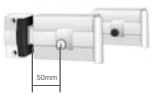
page 35

P SERIES

ANTIPANIC
Doors with panic bars.
Body 140mm
12Vac / 12Vdc
24Vdc

page 36

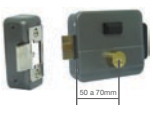
930 SERIES



ELECTRIC
Cylinder 50mm.
Body 116mm
12Vac / 12 Vdc

page 37

960 SERIES



ELECTRIC. REPLACEMENT
Adjustable cylinder from 50mm to 70mm
Body 140,5mm
12Vac / 12Vdc

page 38

8000 SERIES

WITH CHAIN
Doors with handle
Body 122mm
12Vac

page 39

C SERIES

CRYSTAL
2 leaves, one fixed
12Vac

page 40

ELECTROMAG.

ELECTROMAGNETIC
Body 220mm
12Vdc or 24Vdc
Resistence 300kg

page 41

ELECTROMAG.

ELECTROMAGNETIC
Body 248mm
12Vdc or 24Vdc
Resistence 500kg

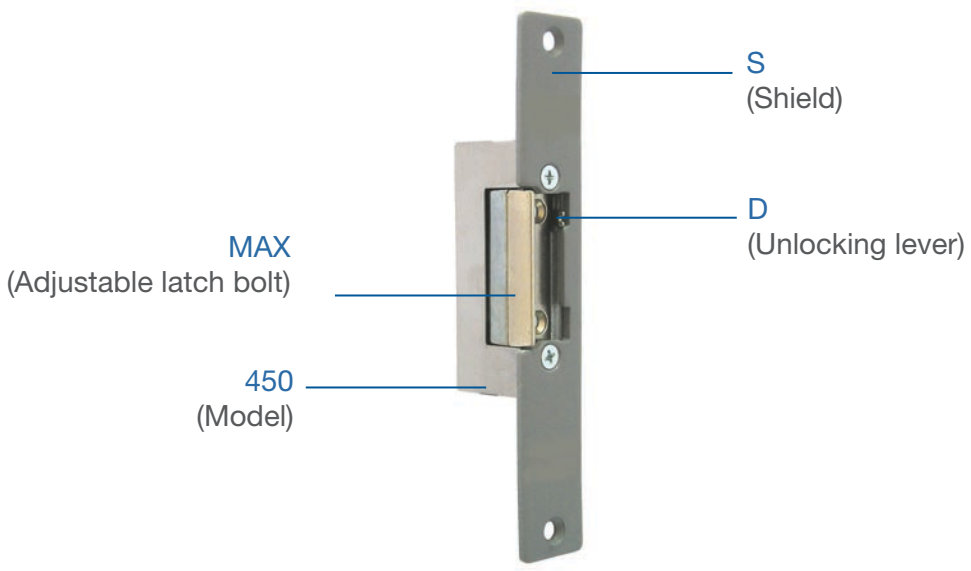
page 41

1. Composition

Each series consists of different references or models depending on the electrical or operating features required.
The terminology used in each trade reference follows the same composition.

REF. 30598 LOCK RELEASE | **MOD.450** | **ND-412** | - | **S** | **MAX**

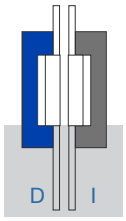
MOD.450	ND-412	S	MAX
Model	Operation	Shield or case	Adjustable latch bolt



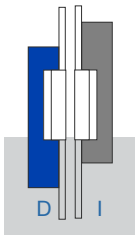
	EXAMPLE	FEATURES
MODEL	450, 410, 480, etc.	Identifies the lock or mechanism size and characteristics. If no model is specified, understood as Universal Model (non-symmetrical).
OPERATION	N, ND, A, AD, Aa, AaD N-400, N-500, MAX	Lock release mechanism operation is identified by a letter or letter-number.
SHIELD AND CASE	S, P, G, GE, L, 1001, 1002, 53, F-2006 F-2007, F-2003.	Shield or case type is identified by a number or letter.
MAX mention Adjustable latch	MAX	Identifies lock release with adjustable latch/bolt. To order it, please add an 8 to the end of the trade Ref. of the compatible door lock release.

2. Glossary of terms

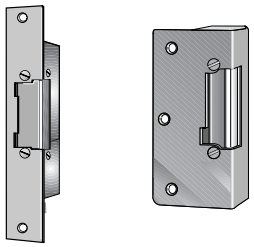
Reversible
Opening enabled both to right and left.



Lock Release
Symmetrical Reversible
Allows to change sides without changing the frame gap.



Lock Release
Non-Symmetrical
Reversible
When changing from left to right the lock does not stay in synch with gap.



Lock Release for Access Doors
Lock Release
Non-Symmetrical Reversible

Lock release with deadbolt lock

Radial latch: The radial system has a built-in bolt that rotates on a displaced axis, limiting the bolts movement perimeter. Lock release installation is easier and looks better as no lateral cuts are made to the door frame.

N	Normal Operation: 12Vac.
N-412	Normal Operation: 12Vdc.
N-424	Normal Operation: 24Vdc.
A	Automatic Operation: 12Vac.
Aa	Invisible Automatic Operation: 12Vac. The automatic pin is suppressed to allow an easier fit to the mechanical lock. A very short electrical pulse is recommended.
A-412	Automatic Operation: 12Vdc.
N-512	Inverted Operation: 12Vdc.
N-524	Inverted Operation: 24Vdc.
D	With unlocking tab.
MAX	With adjustable latch.

SHIELD TYPE

S, SX*	Short shield: 25 x 160.
P, PX*	Short shield: 25 x 130.
P22	Short shield: 22 x 130.
B22	Short shield: 22 x 110.
G, GX*	Long shield with 36 mm standard distance between latch and bolt.
M,MX*	Long shield with 16 mm distance between latch and bolt and 17 x 91 deadbolt lock.
L	Long shield with 16 mm distance between latch and bolt and 13 x 91 deadbolt lock.
T	Long shield with 16 mm distance between latch and bolt and 85 mm high deadbolt lock.
GE	Long shield with very short distance (12 mm) between latch and bolt and 60 mm high deadbolt lock
53	Angular short shield: 25 x 160.
1001	Angular long shield with deadbolt lock (left DIN 1001).
1002	Angular long shield with deadbolt lock (right DIN 1002).

** Stainless steel shield.*

CASE TYPE

2001	One-piece case in polished chrome. Visible attachment on frame.
2006	One-piece case in matt grey. Visible attachment on frame.
2003	Two-piece case in anodized aluminium. Hidden frame attachment.
2005	One-piece case in polished chrome. Hidden frame attachment.
2007	One-piece case in matt grey. Hidden frame attachment.

Dimensions: (horizontal) x (vertical) mm

450 SERIES

Current	Type	Short shield S	Large shield M
12 Vac	N	3071	2836
	ND	2834	2832
	A	3069	2822
	AD	2820	2818
	Aa	2815	
	AaD	2821	
12 Vdc	N-412	3070	2824
	ND-412	3059	2830
	A-412	3057	2814
	AD-412	3058	2816
	Aa-412	2817	
	AaD-412	2819	
	N-512	2828	2826

* To order the MAX version lock release with adjustable latch bolt, please add 8 to the end of the reference.

UNIVERSAL SERIES

Current	Type	Short shield S	Large shield G
12 Vac	N	2911	2924
	ND	2912	2925
	A	2909	2926
	AD	2910	2927
12 Vdc	N-412	2958	3039
	A-412	3038	
	AD-412	3093	
	N-512	2967	
24 Vdc	N-424	2962	
	A-424	2908	
	AD-424	2907	
	N-524	2968	

* To order the MAX version lock release with adjustable latch bolt, please add 8 to the end of the reference.

410 SERIES

Current	Type	Short shield P22	Large shield L22
12 Vac	N	3040	2802
	ND	3041	2803
	A	3048	2804
	AD	3068	2805
12 Vdc	N-412	2889	2809
	ND-412	2806	2810
	A-412	2890	2811
	AD-412	2807	2812
	N-512	2808	2813

3000 SERIES

Current	Type	Short shield S
12 Vac	N	2953
12 Vdc	N-412	29580
	N-512	29670
24 Vdc	N-424	29620
	N-524	29680

500 SERIES

Current	Type	Short shield SX	Large shield MX
12 Vac	N	2880	2884
	ND	2881	2885
	A	2882	2886
	AD	2883	2887
12 Vdc	N-412	2888	3109
	ND-412	3105	2796
	A-412	3106	2797
	AD-412	3107	2798
	N-512	3108	2799

620 SERIES

Current	Type	Short shield SX	Large shield GX
12 Vac	N	2874	2876
	Aa	2875	2877

520 SERIES

Current	Type	Short shield PX
12 Vac	N	2870
	A	2871
12 Vdc	N-412	2872
	N-512	2873

AMERICA SERIES

460 470 9000

Current	Type	460	470	9000
12 Vac	N	2956	3027	2969
	Aa			2971
12 Vdc	N-412	3061	3028	3063
	N-512	3062	3029	

850 SERIES

Current	Distance* (mm)	850 Series
12 Vac 12 Vdc	25	3102
	30	3104
	35	3103
	50	3101

* mm distance between cylinder centre and front.

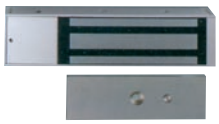
CRYSTAL SERIES

CII C

Current	Type	Single leaf CII-SX	Double leaf C
12 Vac	N	3095	2996
	ND		2997
	A	3094	2961
	AD		2998
12 Vdc	N-412	3096	
	N-512	3098	

ELECTROMAGNETIC

3050



3051

3052

Current	Type	300 kg	500 kg
12 Vdc 24 Vdc	FLUSH	3050	
	SURFACE	3052	3051

2000 SERIES

2001-2006 2005-2007 2003

Current	Type	Visible attachment on frame		Hidden frame attachment		
		2001	2006	2005	2007	2003
12 Vac	N	2923	3000	2948	2952	2940
	A	2917	3002	2950	2954	2942

NGB SERIES

Current	Type	INGERSOLL SC71
12 Vac	N	2989
12 Vdc	N-412	3074
	N-512	3075

6000 SERIES

Current	Type	Locking door
12 Vac	N	3004
	A	3005
	AD	3006
12 Vdc	N-412	3072
	N-512	3073

480 SERIES - 490 SERIES

H

V

Current	Type	Locking door 480 SERIES (H)	Locking door 490 SERIES (V)
12 Vac	N	3030	3034
	Aa	3031	3035
12 Vdc	N-412	3032	3036
	N-512	3033	3037

PANIC SERIES

Current	Type	P
12 Vac	N	3064
12 Vdc	N-412	3065
	N-512	3066
24 Vdc	N-424	3067

ELECTRIC LOCKS

930

960

Current	Type	930	960
12 Vac/ 12Vdc	DOUBLE KEY	3007	2878
	DOUBLE KEY + PUSHBUTTON	2991	2879
	DOUBLE KEY - NO PUSHBUTTON FUNCTION	3042	

8000 SERIES

Current	Type	With chain
12 Vac	N	2984

LOCK RELEASE TYPES

FLUSH-MOUNTED
SURFACE

FERMAX

Universal 450 Series. Symmetrical

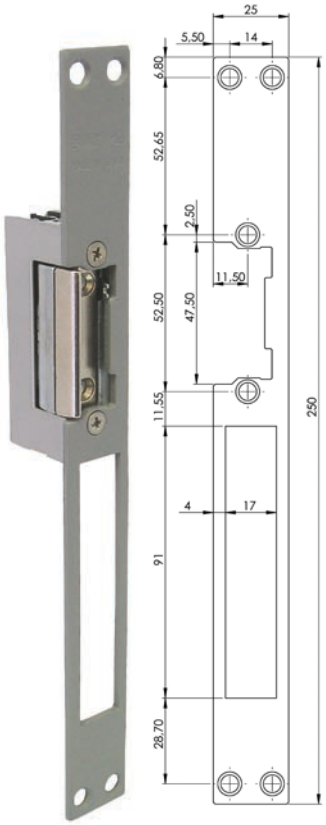
TECHNICAL FEATURES

- Body 75 mm.
- Front panel 21 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Includes S-type shield for access doors or M-type shield for locking doors. Other compatible shields: short (P, P22, B22, 53) and long (T, L, L22, 1001 and 1002).
- **Allows MAX version:** All models can be ordered with adjustable bolt by adding 8 to the end of the reference.
  Flush-mounted in wooden or metal frames. Small size allows change of hand without having to enlarge the space where the lock release is inserted.

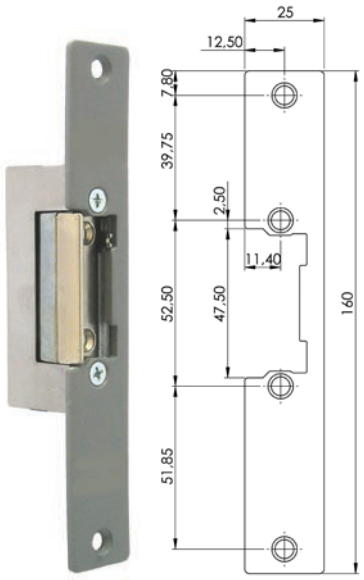
SPECIFICATIONS

Consumption:
N, A, Aa 12Vac: 980mA
N-412 12Vdc: 400mA
N-512 12Vdc: 200mA

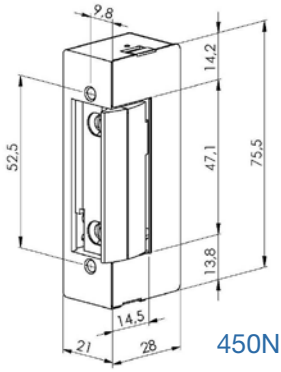
Temperature: -40 to 120ºC
Resistance (Kg): 230
Tested cycles: 200.000



450ND-M MAX M



450ND-S MAX S



450ND-MAX

REFERENCES

12 Vac

For access doors (S shield)

3071 UNIVERSAL LOCK RELEASE MOD.450N-S
2834 UNIVERSAL LOCK RELEASE MOD.450ND-S
3069 UNIVERSAL LOCK RELEASE MOD.450A-S
2820 UNIVERSAL LOCK RELEASE MOD.450AD-S
2815 UNIVERSAL LOCK RELEASE MOD.450Aa-S
2821 UNIVERSAL LOCK RELEASE MOD.450AaD-S

For security doors (M shield)

2836 UNIVERSAL LOCK RELEASE MOD.450N-M
2832 UNIVERSAL LOCK RELEASE MOD.450ND-M
2822 UNIVERSAL LOCK RELEASE MOD.450A-M
2818 UNIVERSAL LOCK RELEASE MOD.450AD-M

12 Vdc

For access doors (S shield)

3070 UNIVERSAL LOCK RELEASE MOD.450N-412-S
3059 UNIVERSAL LOCK RELEASE MOD.450ND-412-S
3057 UNIVERSAL LOCK RELEASE MOD.450A-412-S
3058 UNIVERSAL LOCK RELEASE MOD.450AD-412-S
2817 UNIVERSAL LOCK RELEASE MOD.450Aa-412-S
2819 UNIVERSAL LOCK RELEASE MOD.450AaD-412-S
2828 UNIVERSAL LOCK RELEASE MOD.450N-512-S

For locking doors (M shield)

2824 UNIVERSAL LOCK RELEASE MOD.450N-412-M
2830 UNIVERSAL LOCK RELEASE MOD.450ND-412-M
2814 UNIVERSAL LOCK RELEASE MOD.450A-412-M
2816 UNIVERSAL LOCK RELEASE MOD.450AD-412-M
2826 UNIVERSAL LOCK RELEASE MOD.450N-512-M

See glossary of terms page 9

Universal Series. Non-Symmetrical

CARACTERÍSTICAS TÉCNICAS

- Body 104 mm.
- In MAX version, the body is 90 mm.
- Front panel 20 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.
- Includes S-type shield for access doors and G-type shield for locking doors. Other compatible shields: P, M, L, 1001, 1002, 53.
- **Allows MAX version:** All models can be ordered with adjustable bolt by adding 8 to the end of the reference.

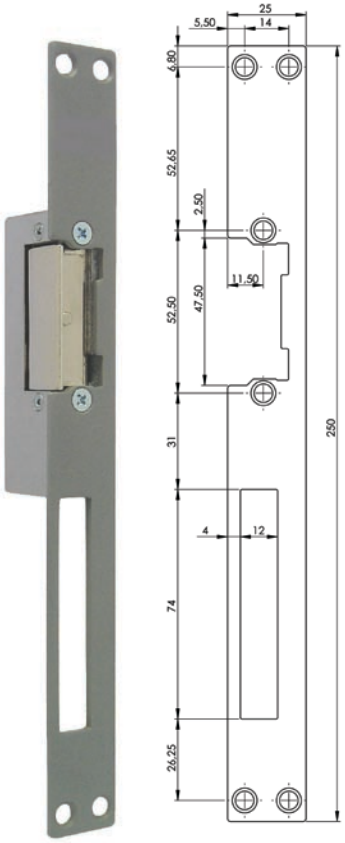
Flush mounting in wooden or metal frames. Characteristic robust design and low power consumption.

SPECIFICATIONS

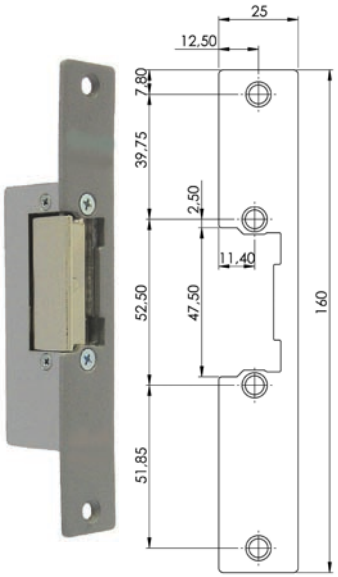
Consumption:

N, A	12Vac:	980mA
N-412	12Vdc:	200mA
N-512	12Vdc:	150mA
N-424	24Vdc:	120mA

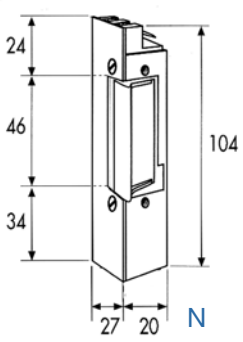
Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000



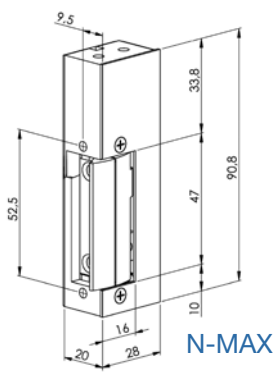
A-G G



A-S S



N



N-MAX

REFERENCES

12 Vac

For access doors (S shield)

2911 UNIVERSAL LOCK RELEASE N-S
2912 UNIVERSAL LOCK RELEASE ND-S
2909 UNIVERSAL LOCK RELEASE A-S
2910 UNIVERSAL LOCK RELEASE AD-S

For security doors (G shield)

2924 UNIVERSAL LOCK RELEASE N-G
2925 UNIVERSAL LOCK RELEASE ND-G
2926 UNIVERSAL LOCK RELEASE A-G
2927 UNIVERSAL LOCK RELEASE AD-G

12 Vdc

For access doors (S shield)

2958 UNIVERSAL LOCK RELEASE N-412-S
3038 UNIVERSAL LOCK RELEASE A-412-S
3093 UNIVERSAL LOCK RELEASE AD-412-S
2967 UNIVERSAL LOCK RELEASE N-512-S

For security doors (G shield)

3039 UNIVERSAL LOCK RELEASE N-412-G

24 Vdc

For access doors (S shield)

2962 UNIVERSAL LOCK RELEASE N-424-S
2908 UNIVERSAL LOCK RELEASE A-424-S
2907 UNIVERSAL LOCK RELEASE AD-424-S
2968 UNIVERSAL LOCK RELEASE N-524-S

See glossary of terms page 9

Replacement 410 Series. European Profile

TECHNICAL FEATURES

- Body 67 mm.
- Front panel 16,5mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Radial latch.
- Includes P22-type shield for access doors and L22-type shield for locking doors. Other compatible shields: B22, M, T, GE.
- Adjustable latch bolt. MAX Version as standard

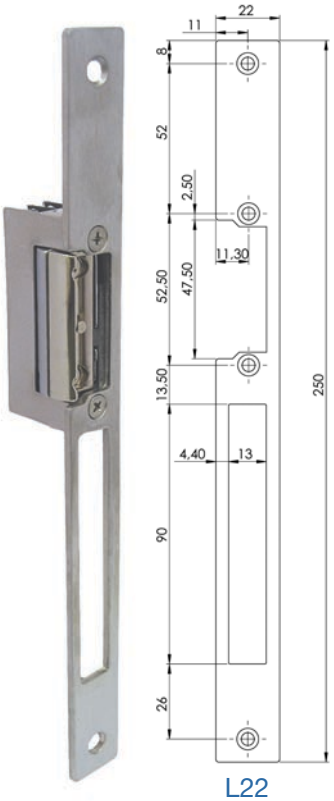
Recommended for replacement.
The smallest door lock release on the market (front width 16,5 mm). Installed in smaller aluminium or PVC frames.
Includes radial latch allowing the bolt to rotate on its axis without having to make a lateral cut in the door frame, which is not possible in traditional latch-bolt locks.
The standard version offers MAX adjustable latch, allowing the adjustment between the latch and the bolt in the installation process.

SPECIFICATIONS

Consumption:

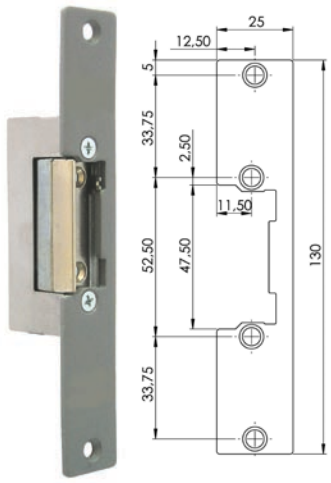
N, A	12Vac:	980mA
N-412	12Vdc:	400mA
N-512	12Vdc:	200mA

Temperature: -40 to 120ºC
Resistance (Kg): 300
Tested cycles: 200.000

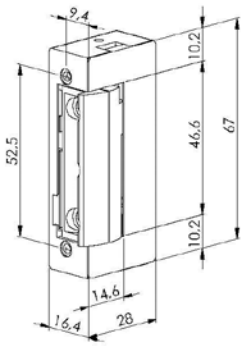


L22

410A - L22 - MAX



410ND - MAX P22



410N - MAX

REFERENCES

12 Vac

For access doors (P22 shield)

3040 LOCK RELEASE MOD.410N-P22-MAX
3041 LOCK RELEASE MOD.410ND-P22-MAX
3048 LOCK RELEASE MOD.410A-P22-MAX
3068 LOCK RELEASE MOD.410AD-P22-MAX

For locking doors (L22 shield)

2802 LOCK RELEASE MOD.410N-L22-MAX
2803 LOCK RELEASE MOD.410ND-L22-MAX
2804 LOCK RELEASE MOD.410A-L22-MAX
2805 LOCK RELEASE MOD.410AD-L22-MAX

12 Vdc

For access doors (P22 shield)

2889 LOCK RELEASE MOD.410N-412-P22-MAX
2806 LOCK RELEASE MOD.410ND-412-P22-MAX
2890 LOCK RELEASE MOD.410A-412-P22-MAX
2807 LOCK RELEASE MOD.410AD-412-P22-MAX
2808 LOCK RELEASE MOD.410N-512-P22-MAX

For locking doors (L22 shield)

2809 LOCK RELEASE MOD.410N-412-L22-MAX
2810 LOCK RELEASE MOD.410ND-412-L22-MAX
2811 LOCK RELEASE MOD.410A-412-L22-MAX
2812 LOCK RELEASE MOD.410AD-412-L22-MAX
2813 LOCK RELEASE MOD.410N-512-L22-MAX

See glossary of terms page 9

3000 Series. With door sensor

TECHNICAL FEATURES

- Body 104 mm.
- Front panel 20 mm.
- Reversible (Right DIN and Left DIN).
- Non-symmetrical.
- Includes S type shield for access doors.
  Other compatible shields: P, 53, G, M, L, 1001, 1002, 53.
- Includes microswitch (C, NO, NC). For signals and other applications.

This version allows a range of applications due to its highly reliable C/No/Nc microswitch with gold contacts. Maximum contact intensity is 2A-230Vac. Indicates if the door is open or closed. Indispensable in security and alarm installations in banks, laboratories, jewellery stores and all premises that require door opening with automatic locking of another and vice versa.

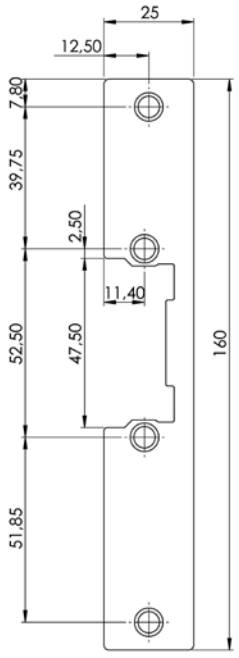
See sample installation in INSTALLATION DIAGRAMS page 61.

SPECIFICATIONS

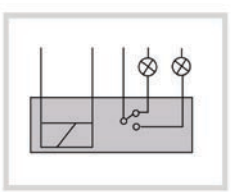
Consumption:		
N	12Vac:	980mA
N-412, N-512	12Vdc:	150mA
N-424, N-524	24Vdc:	120mA

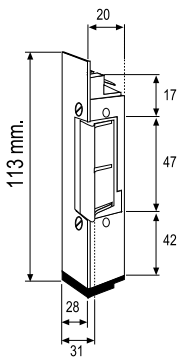
Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

3000N-S



S





3000N

REFERENCES

2953	LOCK RELEASE MOD.3000N-S
29580	LOCK RELEASE MOD.3000N-412-S
29670	LOCK RELEASE MOD.3000N-512-S
29620	LOCK RELEASE MOD.3000N-424-S
29680	LOCK RELEASE MOD.3000N-524-S

See glossary of terms page 9

500 Series Reinforced (800 Kg)

TECHNICAL FEATURES

As 450 series but with reinforced steel latch.

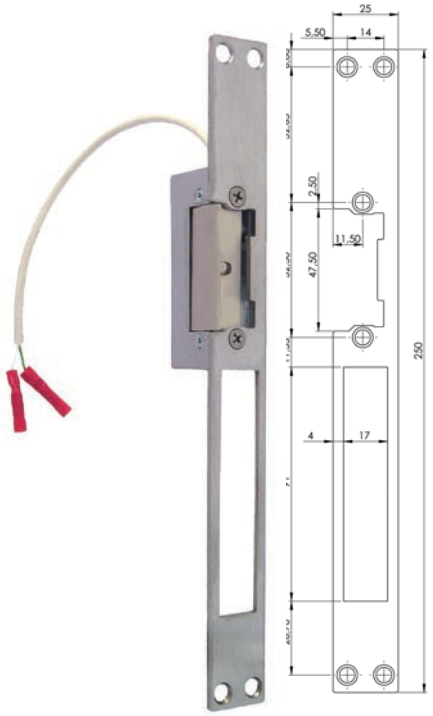
- Body 75 mm.
- Front panel 21 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- With steel bolt impact resistant up to 800 kg.
- Includes SX-type shield for access doors and MX shield for locking doors. Other compatible shields: P, P22, B22, 53, T, L, L22, 1001, 1002.

Recommended for heavy doors in frequent use. Doors in wrought iron, iron or steel with heavy traffic in access. Includes a wire conduit for easy installation with a simple splice connector.

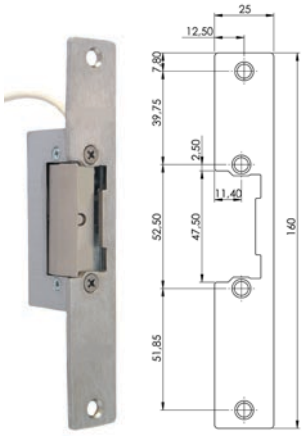
SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA
N-412 12Vdc: 400mA

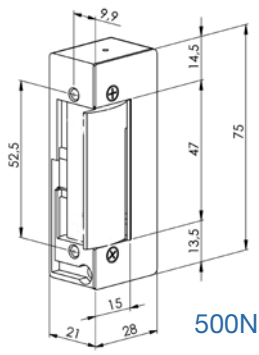
Temperature: -40 to 120ºC
Resistance (Kg): 800
Tested cycles: 200.000



500A-MX MX



500A-SX SX



500N

REFERENCES

12 Vac

For access doors (SX shield)

2880 LOCK RELEASE MOD.500N-SX
2881 LOCK RELEASE MOD.500ND-SX
2882 LOCK RELEASE MOD.500A-SX
2883 LOCK RELEASE MOD.500AD-SX

For locking doors (MX shield)

2884 LOCK RELEASE MOD.500N-MX
2885 LOCK RELEASE MOD.500ND-MX
2886 LOCK RELEASE MOD.500A-MX
2887 LOCK RELEASE MOD.500AD-MX

12 Vdc

For access doors (SX shield)

2888 LOCK RELEASE MOD.500N-412-SX
3105 LOCK RELEASE MOD.500ND-412-SX
3106 LOCK RELEASE MOD.500A-412-SX
3107 LOCK RELEASE MOD.500AD-412-SX
3108 LOCK RELEASE MOD.500N-512-SX

For locking doors (MX shield)

3109 LOCK RELEASE MOD.500N-412-MX
2796 LOCK RELEASE MOD.500ND-412-MX
2797 LOCK RELEASE MOD.500A-412-MX
2798 LOCK RELEASE MOD.500AD-412-MX
2799 LOCK RELEASE MOD.500N-512-MX

See glossary of terms page 9

Serie 620 Watertight (IP65)

TECHNICAL FEATURES

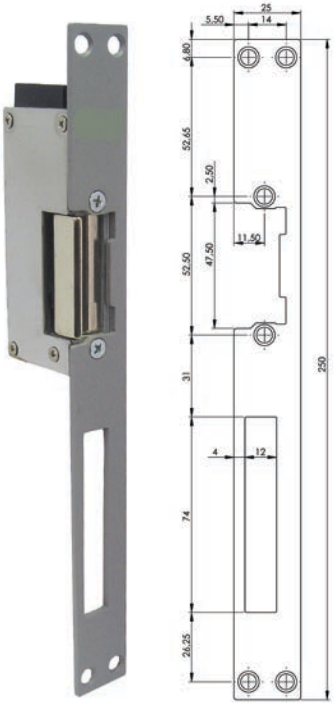
- Body de 100 mm.
- Frontal de 21,5 mm.
- Reversible (DIN Derecha o DIN Izquierda).
- Non symmetrical.
- Includes stainless steel SX-type shield for access doors and GX shield for locking doors. Other compatible shields: 53, 1001, 1002.

Recommended for doors in outdoor locations (enclosures, gates, front line beach properties, etc.). It has fewer holes and incorporates internal and external seals to prevent water and dust getting in, prolonging the lock's working life.

SPECIFICATIONS

Consumption:
N, Aa 12Vac: 980mA
N-412 12Vdc: 1,3A

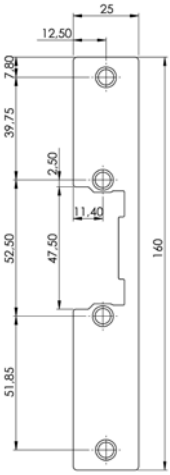
Temperature: -40 to 120ºC
Resistance (Kg): 400
Tested cycles: 200.000



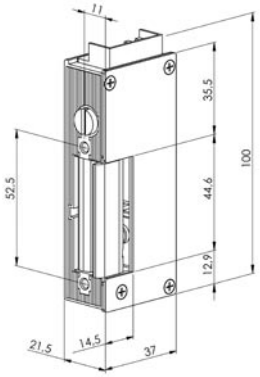
620N-GX

GX

620N-SX



SX



620N

REFERENCES

12 Vac

For access doors (SX shield)
2874 LOCK RELEASE MOD.620N-SX
2875 LOCK RELEASE MOD.620Aa-SX

For locking doors (GX shield)
2876 LOCK RELEASE MOD.620N-GX
2877 LOCK RELEASE MOD.620Aa-GX

See glossary of terms page 9

520 Series Fireproof

TECHNICAL FEATURES

- Body 75,4 mm.
- Front panel 21 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Radial latch.
- Includes PX-type stainless steel casing for access doors. For locking door, with latch recess, MX-type shield recommended.

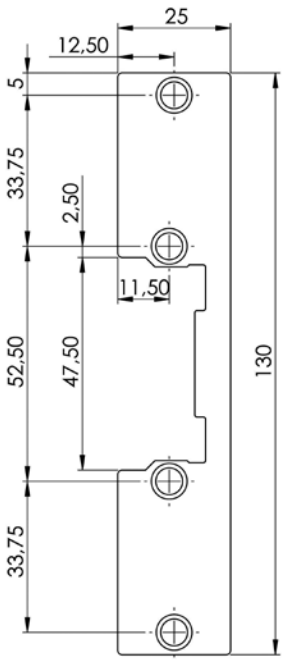
Recommended for Fire Doors or firewalls.

SPECIFICATIONS

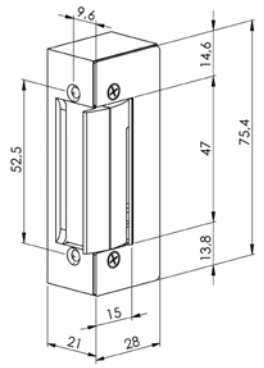
Consumption:
N, A 12Vac: 980mA
N-412 12Vdc: 1,3A

Temperature: -40 to 120ºC
Resistance (Kg): 800
Tested cycles: 200.000

520A-PX



PX



520N

REFERENCES

12 Vac

For access doors (PX shield)

2870 LOCK RELEASE MOD.520N-PX
2871 LOCK RELEASE MOD.520A-PX

12 Vdc

For access doors (PX shield)

2872 LOCK RELEASE MOD.520N-412-PX
2873 LOCK RELEASE MOD.520N-512-PX

See glossary of terms page 9

460 Series

TECHNICAL FEATURES

- Body 75,3 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.

The deeper latch and shield make it particularly suitable for metal frames. Also suitable for American or British locks.

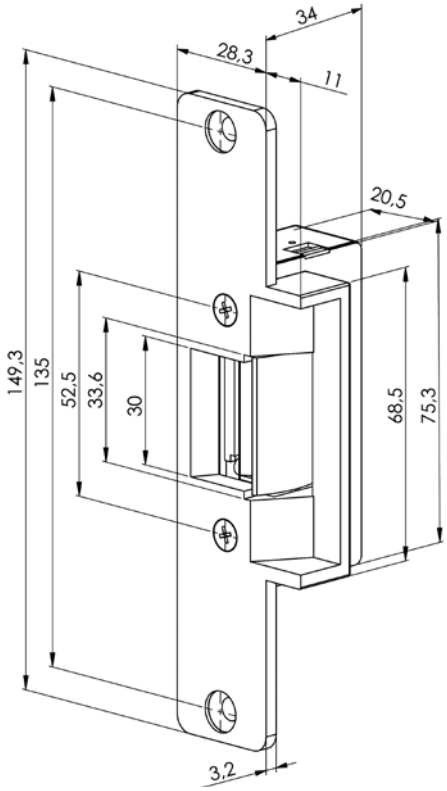
SPECIFICATIONS

Consumption:

N	12Vac:	980mA
N-412	12Vdc:	400mA
N-512	12Vdc:	200mA

Temperature: -40 to 120ºC
Resistance (Kg): 210
Tested cycles: 200.000

460N



460N

REFERENCES

2956 LOCK RELEASE MOD.460N BISEL
3061 LOCK RELEASE MOD.460N-412
3062 LOCK RELEASE MOD.460N-512

See glossary of terms page 9

470 Series

TECHNICAL FEATURES

- Body 85 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.

As 460 series but with an even deeper and longer latch. Designed to protect and conceal the latch recess.

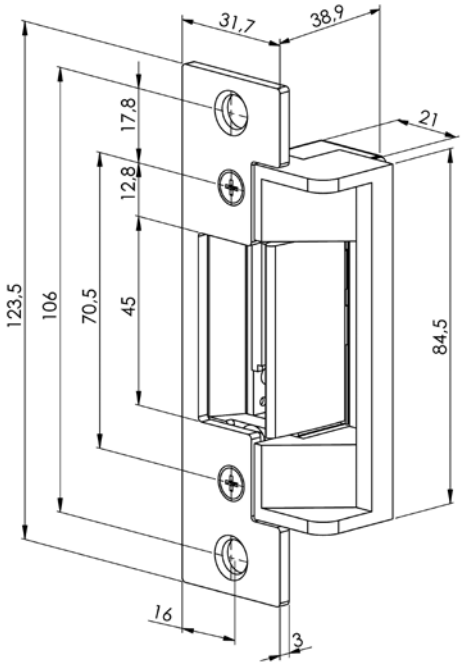
SPECIFICATIONS

Consumption:

N	12Vac:	980mA
N-412	12Vdc:	400mA
N-512	12Vdc:	200mA

Temperature: -40 to 120ºC
Resistance (Kg): 230
Tested cycles: 200.000

470N



470N

REFERENCES

3027	LOCK RELEASE MOD.470N
3028	LOCK RELEASE MOD.470N-412
3029	LOCK RELEASE MOD.470N-512

See glossary of terms page 9

9000 Series

TECHNICAL FEATURES

- Body 102 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.

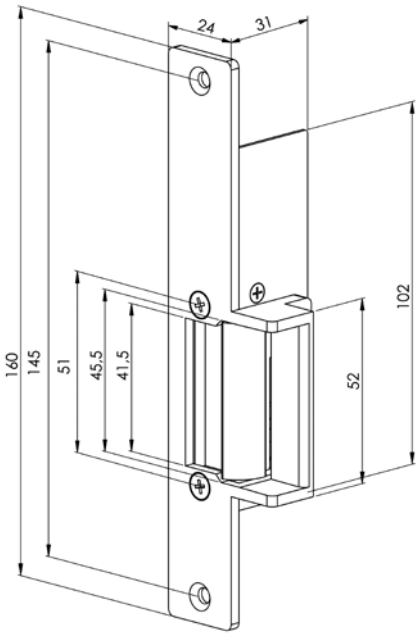
Recommended for flush mounting in metal frames, for its flanged shield and reinforced latch.

SPECIFICATIONS

Consumption:
N, Aa 12Vac: 980mA
N-412 12Vdc: 400mA

Temperature: -40 to 120ºC
Tested cycles: 200.000

9000N



9000N

REFERENCES

2969 LOCK RELEASE MOD.9000N GREY
2971 LOCK RELEASE MOD.9000Aa GREY
3063 LOCK RELEASE MOD.9000N-412 GREY

See glossary of terms page 9

850 Series Automatic lock

TECHNICAL FEATURES

- The automatic lock consists of 2 parts:
  - Mechanical part (on the door leaf)
  - Electrical part (located in the frame)
- Mechanical body 174 mm and front panel 17 mm.
- Electric body 112 mm and front panel 14,20 mm.
- Reversible (Right DIN or Left DIN).
- Includes stainless steel shield.
- There are several models depending on the distance between the centre of the cylinder and front panel A*.

The bolt is passed automatically with no need for keys.
Opening, also automatic, can be performed remotely.

SPECIFICATIONS

Consumption:
12Vac: 990mA
12Vdc: 1350mA
Tension: 12V
Temperature: -10ºC to 50ºC

TYPES AND DIMENSIONS

TYPES	A*	B*
Mod.850/25	25	39
Mod.850/30	30	44
Mod.850/35	35	49
Mod.850/50	50	64

*A: Distance in mm between centre of cylinder and front part.

1 2

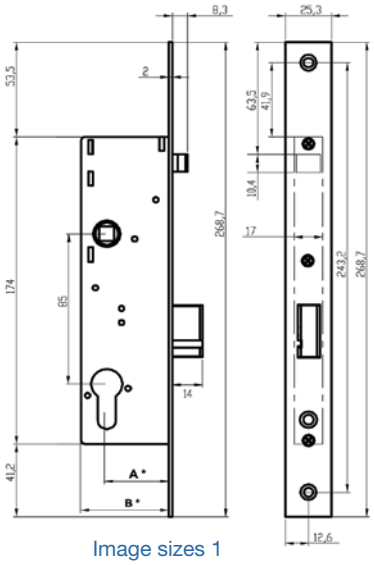
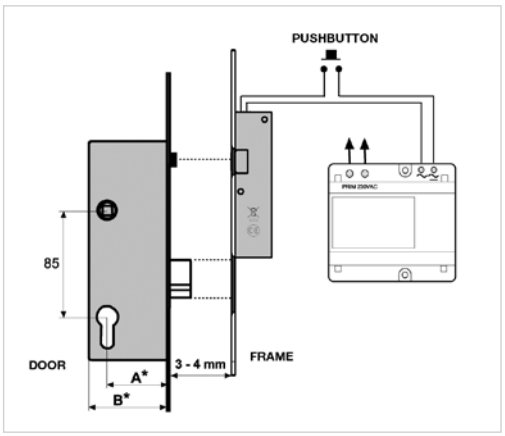


Image sizes 1



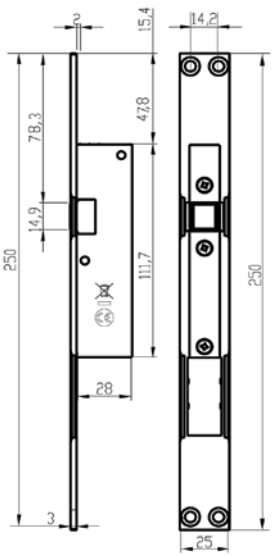


Image sizes 2

REFERENCES

3102 AUTOMATIC LOCK MOD.850/25 A
3104 AUTOMATIC LOCK MOD.850/30 A
3103 AUTOMATIC LOCK MOD.850/35 A
3101 AUTOMATIC LOCK MOD.850/50 A
2869 MECHANISM MOD.850 A
Included in all automatic locks for replacement.

See glossary of terms page 9

CII Crystal Series. Single leaf

TECHNICAL FEATURES

- For single leaf glass doors up to 12 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical
- For double leaf doors, 2 lock releases must be fitted in the upper part of the frame, one for each leaf.
- Includes a safety device to prevent lock release blocking if the door is open.
- Cannot be used for swing doors.

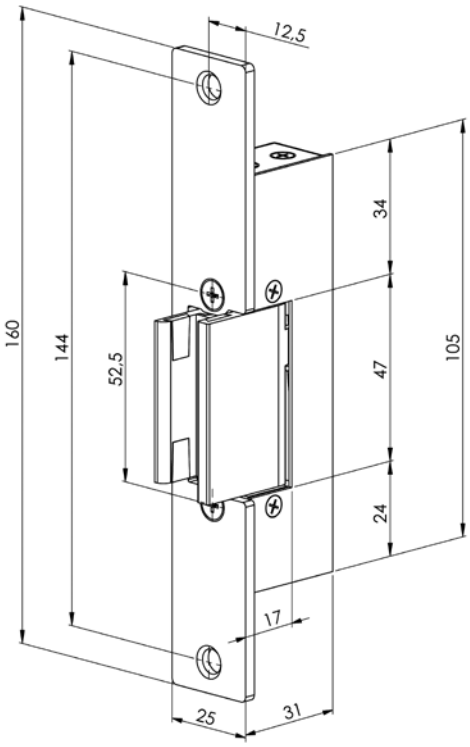
Recommended for glass doors equipped with upper or lateral frame, in metallic or wooden profile.

SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA
N-412 12Vdc: 200mA
N-512 12Vdc: 150mA

Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

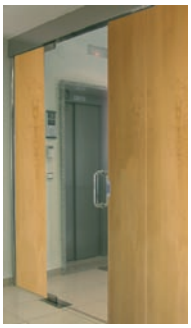
CIIN-SX



CIIN-SX

REFERENCES

3095 CRYSTAL LOCK RELEASE MOD.CIIN-SX
3094 CRYSTAL LOCK RELEASE MOD.CIIA-SX
3096 CRYSTAL LOCK RELEASE MOD.CIIN-412-SX
3098 CRYSTAL LOCK RELEASE MOD.CIIN-512-SX



Glass door with wood profile

See glossary of terms page 9

Electromagnetic Series

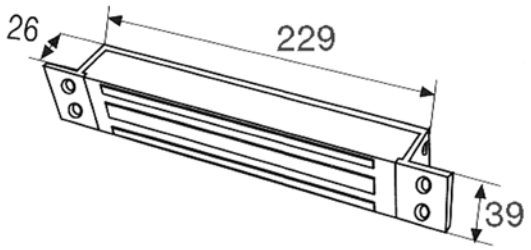
TECHNICAL FEATURES:

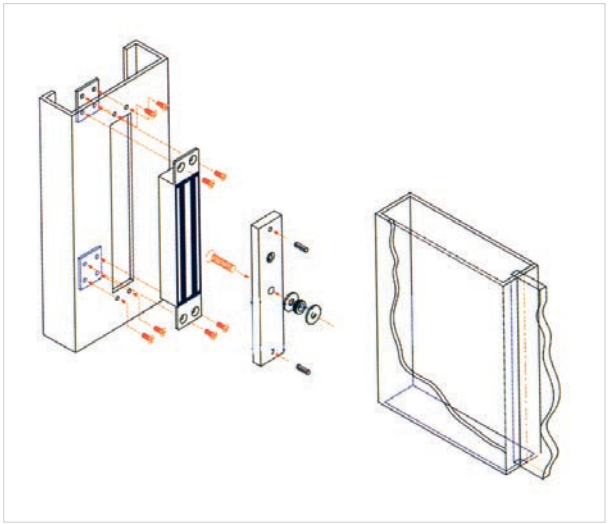
- Allows to close a door without a traditional lock. Also used to keep doors open for security purposes.
- Inverted operation. The electromagnetic lock releases the door when the power is off.
- Consists of an electromagnet fitted in the frame of the door or access and a metal plate installed in the moving part of the door.
- When the electromagnet is powered up, closing is secured by magnetic pull of the magnet on the plate. When the magnet is not powered, the door is released.
- Suitable for installations where we want to hide the electromagnet and for sliding doors.
- Includes assembly kit and installation instructions.
- Runs on 12 Vdc or 24 Vdc power supply.
  See installation instructions supplied with the equipment.

SPECIFICATIONS

Consumption:
12Vdc: 500mA
24Vdc: 250mA

Resistance (kg): 300





REFERENCES

3050 ELECTROMAGNETIC LOCK RELEASE FLUSH-MOUNTED 300Kg

Holding force 3000N. For two-way doors.

See glossary of terms page 9

2001-2006 Series. Visible attachment

TECHNICAL FEATURES:

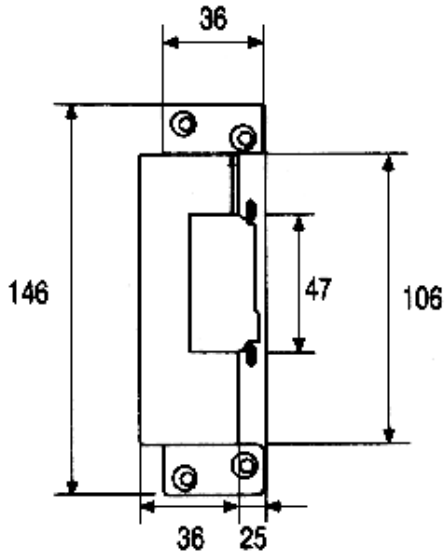
- Includes Universal mechanism.
- One-piece case 146 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.
- Visible attachment on frame.
- For locks without latch/bolt.
- Allows MAX version: All models can be ordered with adjustable latch/bolt by adding 8 to the end of the reference.

SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA

Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

N-2001



2001

REFERENCES

2001 SERIES Chrome

2923 LOCK RELEASE N-2001 CHROME
2917 LOCK RELEASE A-2001 CHROME

2006 SERIES Grey

3000 LOCK RELEASE N-2006 GREY
3002 LOCK RELEASE A-2006 GREY

See glossary of terms page 9

2005 - 2007 Series. Hidden attachment

TECHNICAL FEATURES

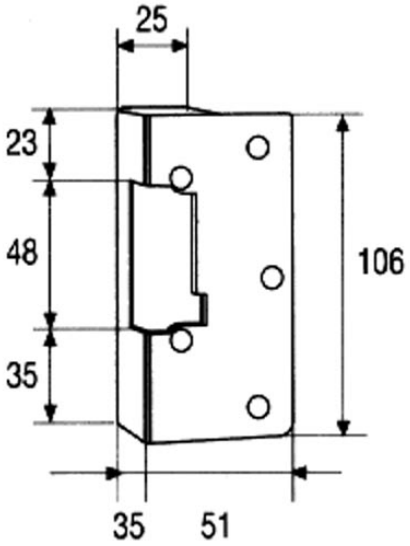
- Includes Universal mechanism.
- One-piece case 106 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical
- Attachment concealed on frame.
- For locks without latch/bolt.
- Allows MAX version: All models can be ordered with adjustable latch/bolt by adding 8 to the end of the reference.

SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA

Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

N-2005



2005

REFERENCES

2005 SERIES Chrome
2948 LOCK RELEASE N-2005 CHROME
2950 LOCK RELEASE A-2005 CHROME

2007 SERIES Grey
2952 LOCK RELEASE N-2007 GREY
2954 LOCK RELEASE A-2007 GREY

See glossary of terms page 9

2003 Series. Hidden attachment

TECHNICAL FEATURES

- Includes Universal mechanism.
- Two-piece case 103 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.
- Attachment concealed on frame.
- For locks without latch/bolt.
- Allows MAX version: All models can be ordered with adjustable latch/bolt by adding 8 to the end of the reference.

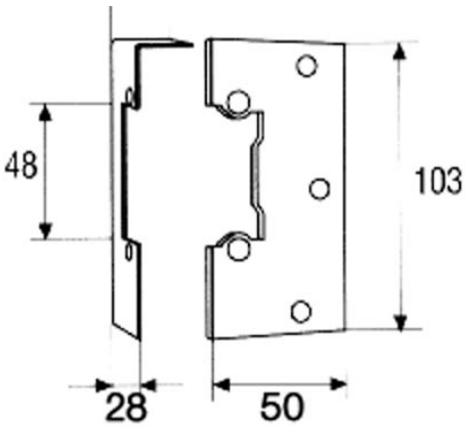
Equipped with angular cover and clamping tab. Allows surface and flush mounting, adding a strike plate/shield to the set.

SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA

Temperature: -40 hasta 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

N-2003



2003

REFERENCES

2940 LOCK RELEASE N-2003 AL. ANOD.
2942 LOCK RELEASE A-2003 AL. ANOD.

See glossary of terms page 9

NGB Series

TECHNICAL FEATURES

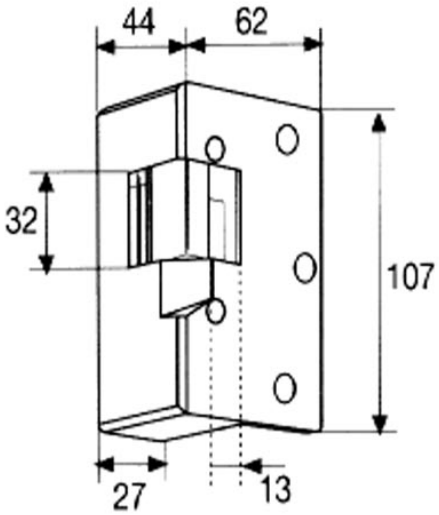
- For INGERSOLL SC71 type locks.
- One-piece case 107 mm.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.
- Attachment concealed on frame.

SPECIFICATIONS

Consumption:

NGB	12Vac:	980mA
NGB-412	12Vdc:	150mA
NGB-512	12Vdc:	150mA

NGB



NGB

REFERENCES

2989 LOCK RELEASE MOD.NGB
3074 LOCK RELEASE MOD.NGB-412
3075 LOCK RELEASE MOD.NGB-512

INGERSOLL LOCK

See glossary of terms page 9

6000 Series

TECHNICAL FEATURES

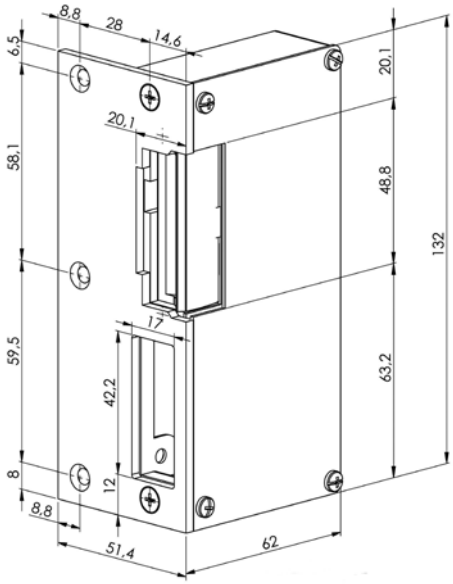
- For locks with latch/bolt.
- Reversible (Left DIN, Right DIN).
- Symmetrical.
- Attachment concealed on frame.

SPECIFICATIONS

Consumption:

N, A	12Vac:	980mA
N-412	12Vdc:	200mA
N-512	12Vdc:	150mA

6000A
Left DIN



6000A
Left DIN

REFERENCES

3004	LOCK RELEASE MOD.6000N
3005	LOCK RELEASE MOD.6000A
3006	LOCK RELEASE MOD.6000AD
3072	LOCK RELEASE MOD.6000N-412
3073	LOCK RELEASE MOD.6000N-512

6000A
Right DIN

See glossary of terms page 9

480 Series. Horizontal

TECHNICAL FEATURES

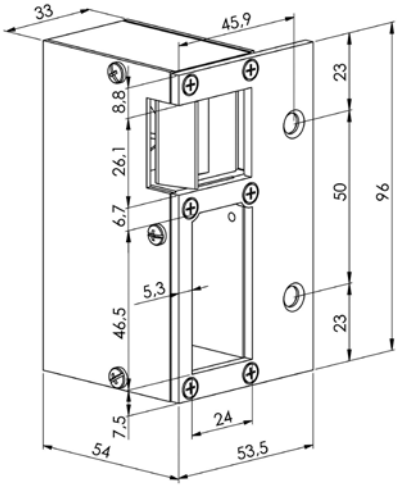
- For horizontal bolt locks with latch width up to 20mm.
- Body 96 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Weather-resistant.
- Attachment concealed on frame.

SPECIFICATIONS

Consumption:

N, Aa	12Vac:	980mA
N-412	12Vdc:	200mA
N-512	12Vdc:	150mA

480N



480N

REFERENCES

3030	LOCK RELEASE MOD.480N
3031	LOCK RELEASE MOD.480Aa
3032	LOCK RELEASE MOD.480N-412
3033	LOCK RELEASE MOD.480N-512

HORIZONTAL LOCK

See glossary of terms page 9

490 Series. Vertical

TECHNICAL FEATURES

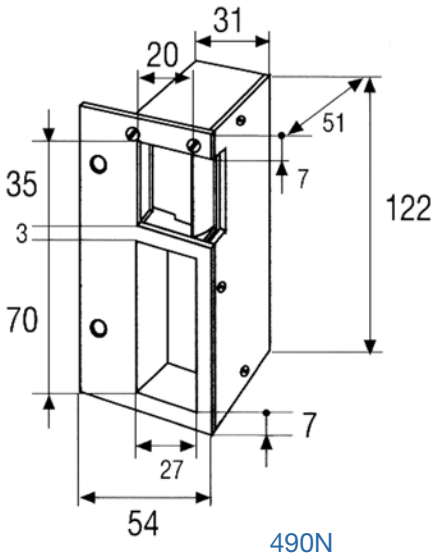
- For vertical locks with latch/bolt with latch width up to 20.
- Body 122 mm.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Weather-resistant.
- Attachment concealed on frame.

SPECIFICATIONS

Consumption:

N, Aa	12Vac:	980mA
N-412	12Vdc:	200mA
N-512	12Vdc:	150mA

490N



490N

REFERENCES

3034	LOCK RELEASE	MOD.490N
3035	LOCK RELEASE	MOD.490Aa
3036	LOCK RELEASE	MOD.490N-412
3037	LOCK RELEASE	MOD.490N-512

VERTICAL LOCK

See glossary of terms page 9

P Series. Panic

TECHNICAL FEATURES:

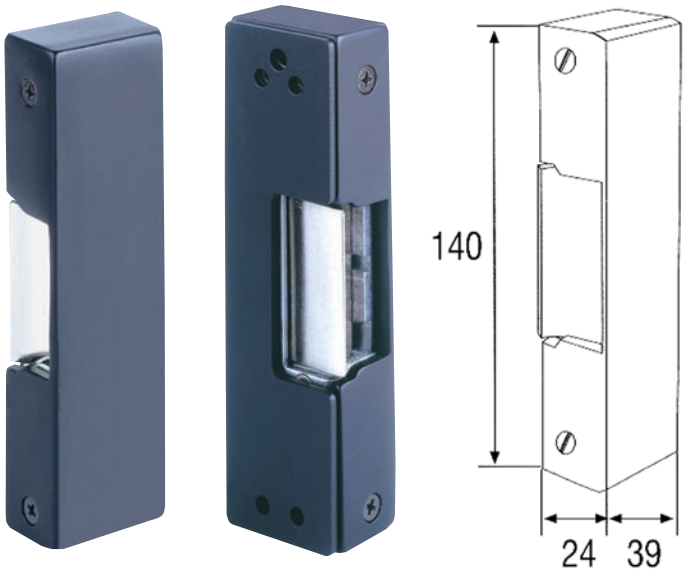
- For doors with panic bar.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Concave latch adaptable to panic bar lock deadbolt.

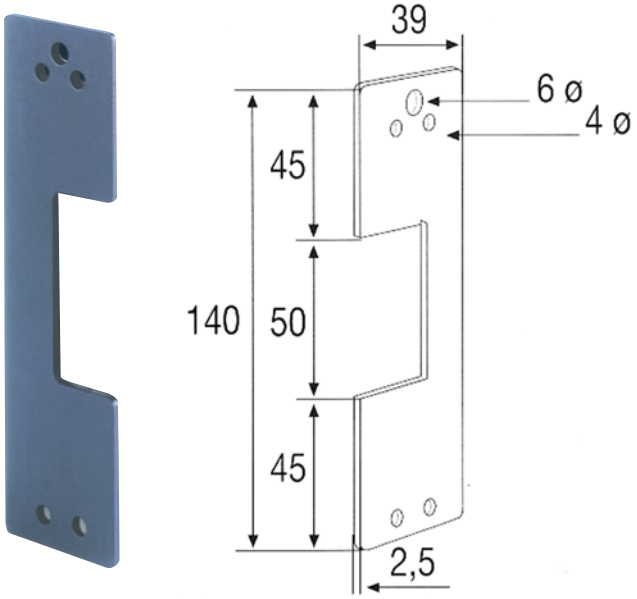
Supplied in black as standard issue, along with 8 accessories 2,5 mm thick.
This model is installed in virtually all brands of panic bar lockset.

SPECIFICATIONS

Consumption:

N	12Vac:	980mA
N-412	12Vdc:	150mA
N-512	12Vdc:	150mA
N-424	24Vdc.	120mA





REFERENCES

3064	LOCK RELEASE MOD.PN
3065	LOCK RELEASE MOD.PN-412
3066	LOCK RELEASE MOD.PN-512
3067	LOCK RELEASE MOD.PN-424

Panic bars

See glossary of terms page 9

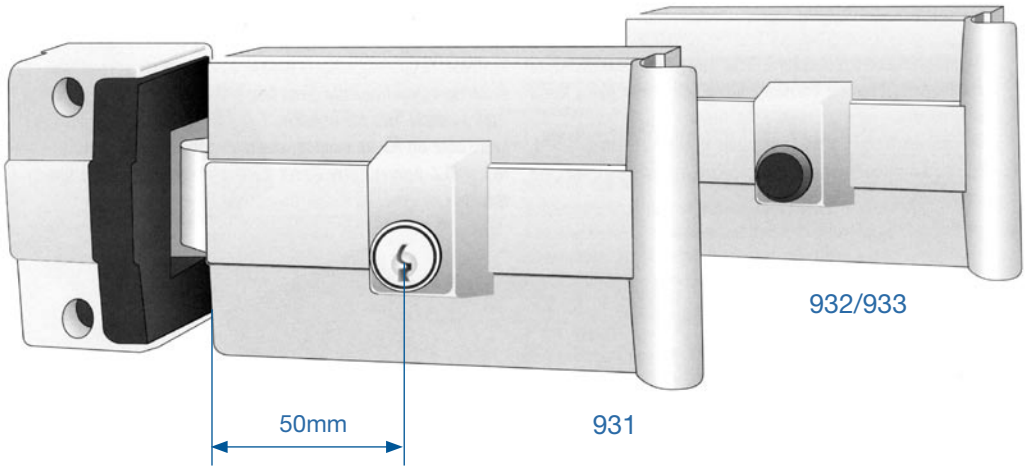
930 Series. Standard

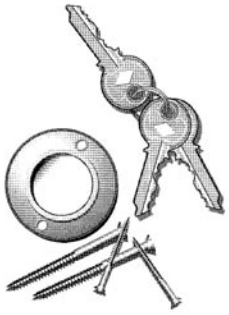
TECHNICAL FEATURES:

- Reversible (Right DIN or Left DIN).
- The panic type latch is a piece with no apparent contact, as it is built into the mechanism and provides greater resistance to opening.
- Allows to change the door from left to right hand simply by turning the lock round.
- Supplied with assembly kit.

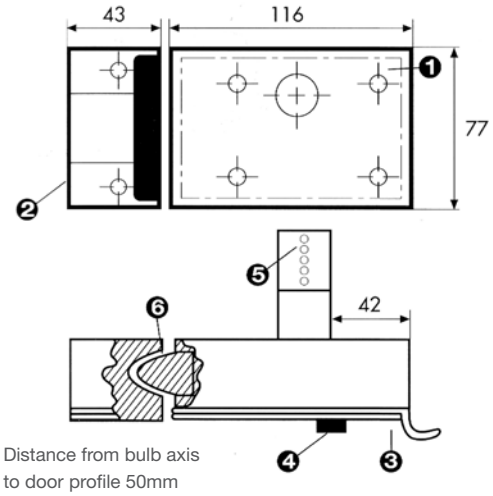
SPECIFICATIONS

Consumption:
12Vac: 850mA
12Vdc: 1,2A





ELECTRIC LOCK BREAKDOWN



1. Mechanism box/casing
2. Frame support piece
3. Mechanism casing cover
4. Open or close pushbutton
5. Bulb
6. Latch/bolt

REFERENCES

3007 ELECTRIC RIM LOCK MOD.931-DOUBLE KEY
2991 ELECTRIC RIM LOCK MOD.932-W/KEY-PUSHBUTTON
3042 ELECTRIC RIM LOCK MOD.933-W/KEY-NO PUSHB. FUNCTION
Requires remote opening, as the button has no function.

See glossary of terms page 9

960 Series. Replacement

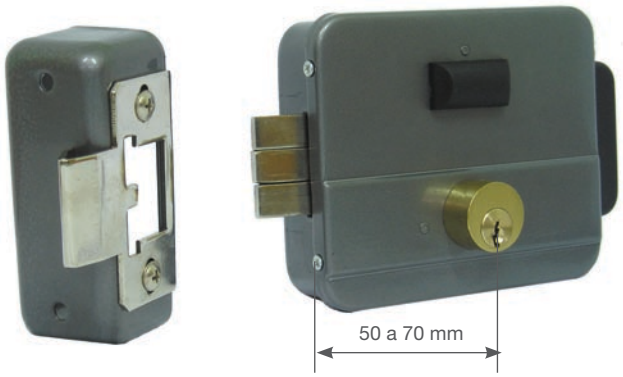
TECHNICAL FEATURES

- Reversible outdoor electric lock with 50 mm cylinder.
- Key opening outside and pushbutton inside.
- Reversible (Right DIN or Left DIN).
- Symmetrical.

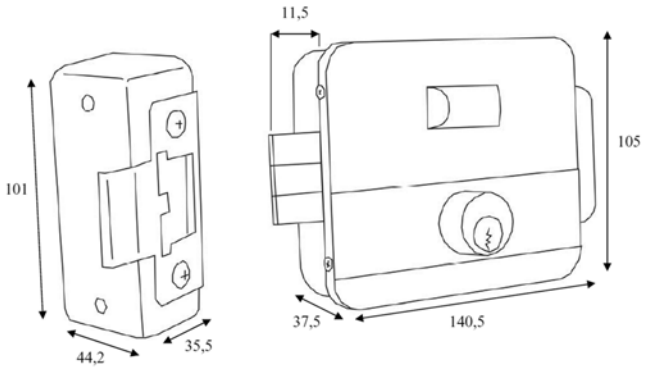
Its size and standard attachment points allow insertion into the majority of electric locks. The cylinder is adjustable from 50 to 70 mm.

SPECIFICATIONS

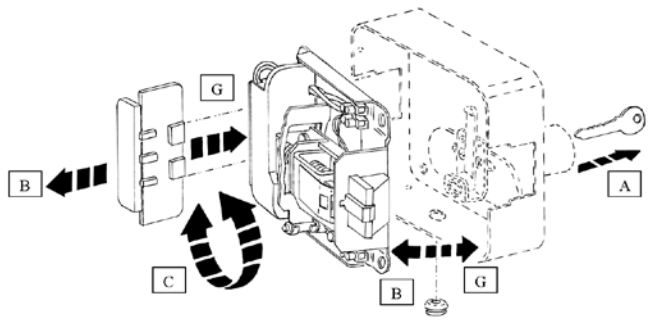
Consumption:
12Vac: 850mA
12Vdc: 1,7A
15W / 18W



View of interior door part.



Hand change. Left - DIN Right - DIN



REFERENCES

2878 ELECTRIC RIM LOCK MOD.961-DOUBLE KEY
2879 ELECTRIC RIM LOCK MOD.962-DOUBLE KEY + PUSHBUTTON
(The exit button can be disabled through the indoor key, allowing the user to exit using a key or electric opening).

See glossary of terms page 9

8000 Series. With chain

TECHNICAL FEATURES:

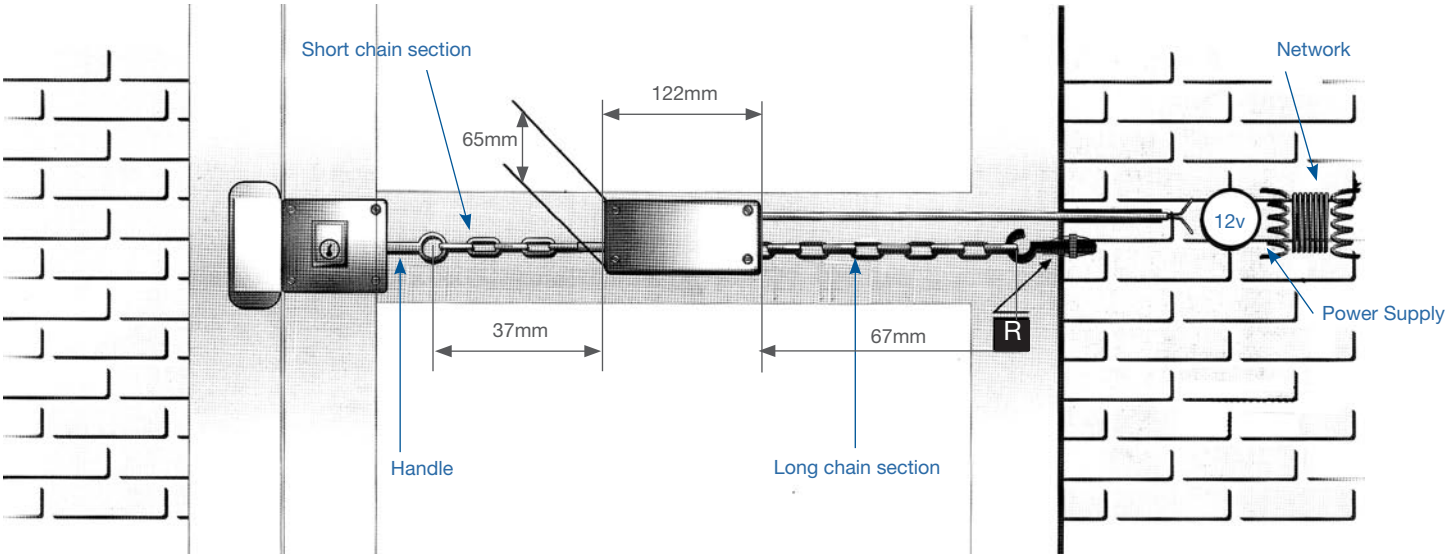
- Surface lock, with chain.
- Reversible (Right DIN or Left DIN).
- For surface locks with handle.

SPECIFICATIONS

Consumption:
12Vac: 980mA

REFERENCES

2984 LOCK RELEASE MOD.8000N WITH CHAIN



ASSEMBLY INSTRUCTIONS

Remove the cover and attach the shortest chain section to the lock handle. Tighten this section of chain to the limit, WITHOUT DISPLACING THE HANDLE, and fit the lock release firmly onto the door using the three attachment points on the inside. Now, part R (trigger force regulator), located at the end of the long chain, can be screwed onto the door frame. It may be necessary to remove a chain link. It can also be tightened simply by moving the threaded stud of the R part by turning the nuts fitted to it. Once the lock release is fitted, we can go ahead and wire up the electrical connection, check that it is working properly and finally replace the cover.

See glossary of terms page 9

Crystal Series C. Double leaf

TECHNICAL FEATURES:

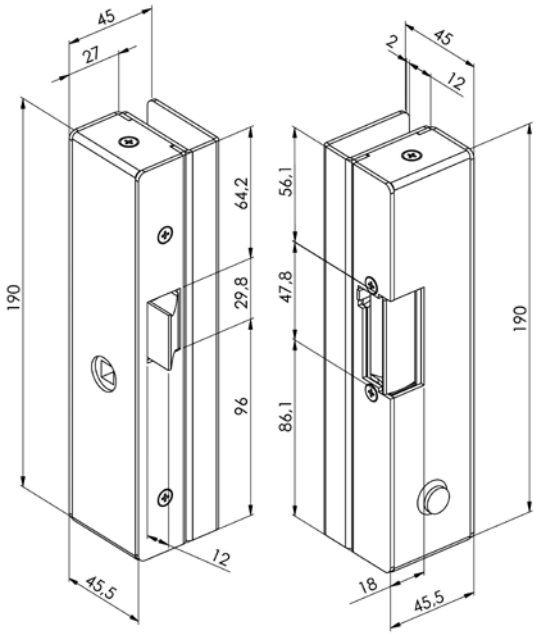
- For double leaf glass doors up to 12 mm.
- Surface lock release.
- Reversible (Right DIN or Left DIN).
- There is a hole on the inside to fit a handle to open the door manually and a pushbutton for electric opening.
- Simple assembly. To be secured using strong silicon glue and screws that lightly rub the glass. Not supplied with the lock release.

SPECIFICATIONS

Consumption:
N, A 12Vac: 980mA

Temperature: -40 to 120ºC
Resistance (Kg): 260
Tested cycles: 200.000

CND



REFERENCES

2996	CRYSTAL LOCK RELEASE MOD.CN CHROME
2997	CRYSTAL LOCK RELEASE MOD.CND CHROME
2961	CRYSTAL LOCK RELEASE MOD.CA CHROME
2998	CRYSTAL LOCK RELEASE MOD.CAD CHROME

See glossary of terms page 9

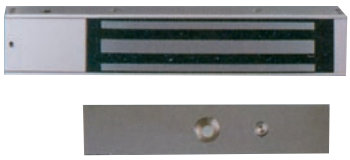
Electromagnetic Series

TECHNICAL FEATURES

- Allows to close a door without a traditional lock. Also useful to keep doors open for security purposes.
- Electromagnetic lock releases the door when it is no longer powered.
- Includes assembly kit and installation instructions.
- Runs on 12 Vdc or 24 Vdc power supply.
  See installation instructions.

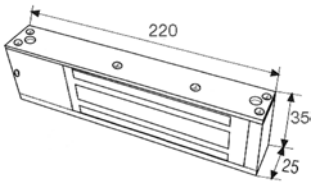
SPECIFICATIONS

Consumption:
12Vdc: 500mA
24Vdc: 250mA



3052

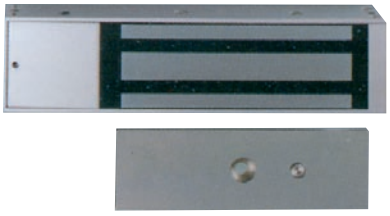
3078



REFERENCES

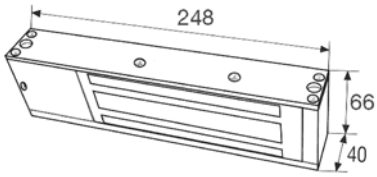
3052 SURFACE ELECTROMAGNETIC LOCK 300Kg.
Holding force: 300N
Bracket optional Ref.3078.

3078 BRACKET L-3 FOR REF.3052



3051

3077

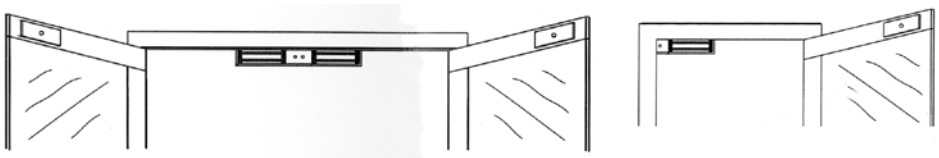


3051 SURFACE ELECTROMAGNETIC LOCK 500Kg.
Provides higher level security with 500 kg of pulling force.
Recommended for high security entry points and outdoor accesses.
Holding force: 5000N.
Bracket optional Ref.3077.

3077 BRACKET L-2 FOR REF.3051

ACCESSORIES

3079 Z DOUBLE BRACKET



For double leaf: 2 units ref.3051 and 2 units ref.3077

See glossary of terms page 9

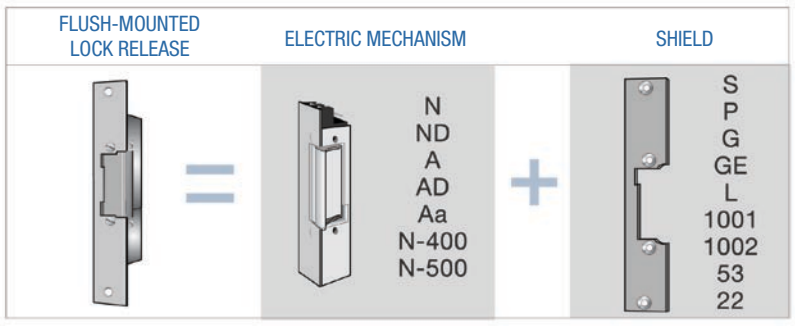
ACCESSORIES

FERMAX

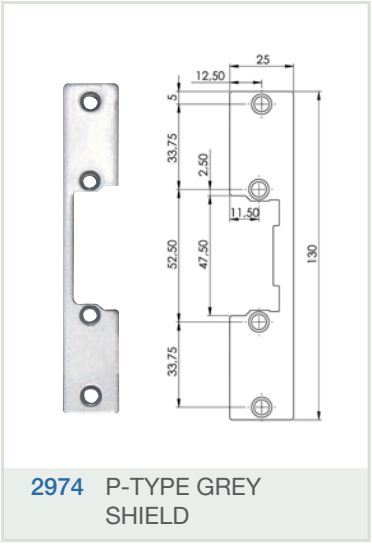
SHIELDS
CASES
POWER SUPPLIES
RETAINERS
CONTACTS
WIRE CONDUITS
RELAYS

Shields. Flush-mounted lock release

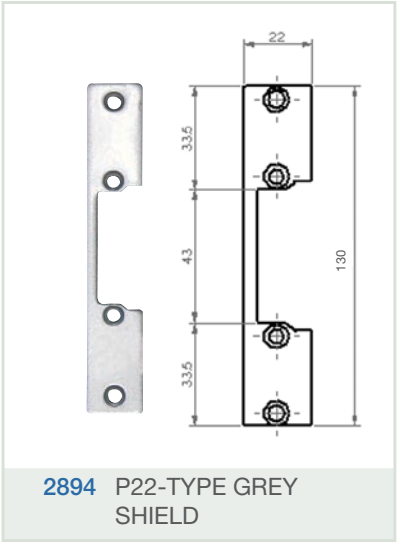
Metallic trim coupled with an electrical mechanism forms a flush mounted lock release for access doors or latch/ deadbolt entry doors. Choice of shield depends on the profile or material used in the door (aluminium, iron or wood).



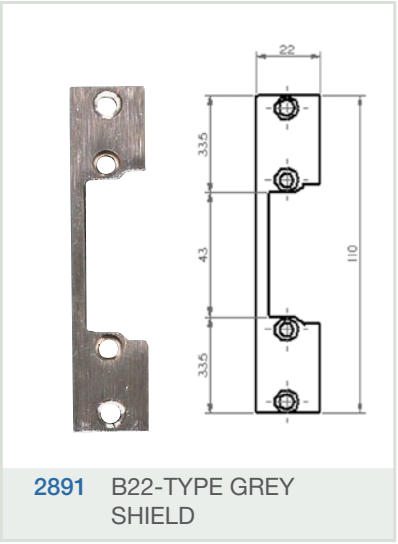
1. FOR ACCESS DOORS



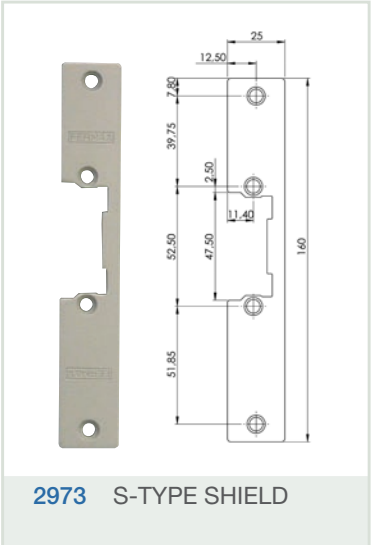
2974 P-TYPE GREY SHIELD



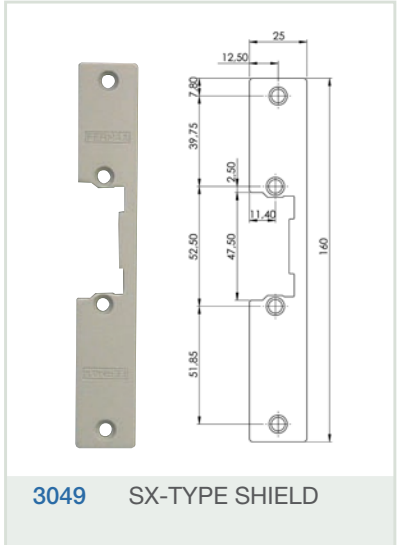
2894 P22-TYPE GREY SHIELD



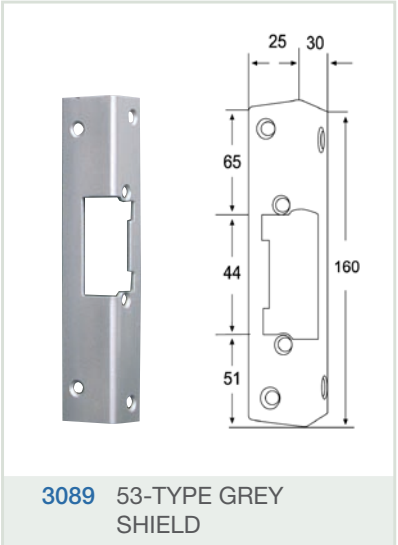
2891 B22-TYPE GREY SHIELD



2973 S-TYPE SHIELD

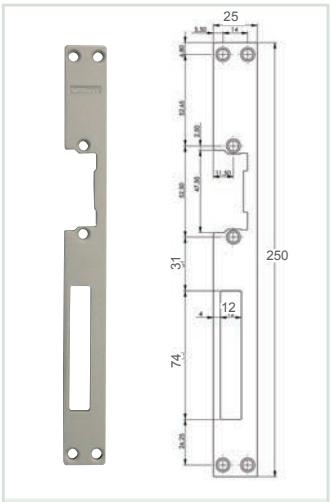


3049 SX-TYPE SHIELD

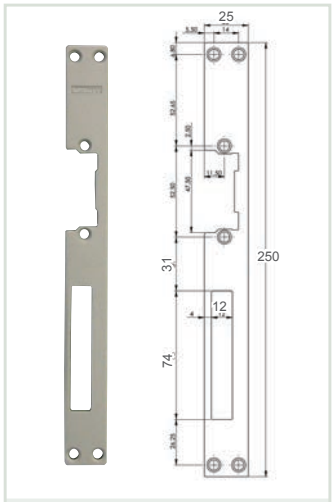


3089 53-TYPE GREY SHIELD

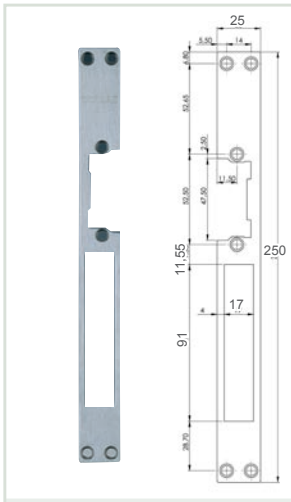
2. FOR LATCH-DEADBOLT LOCK DOORS



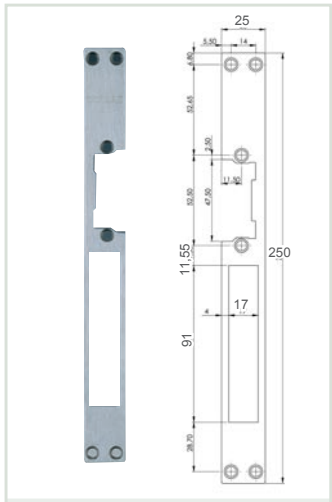
2975 G-TYPE GREY SHIELD



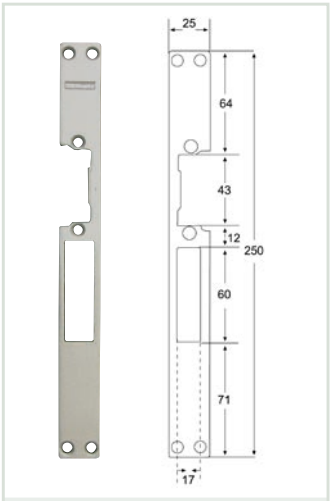
2838 GX-TYPE SHIELD



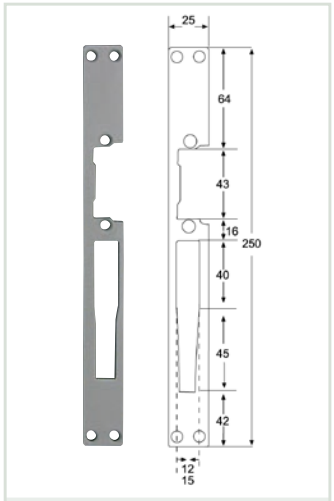
2893 M-TYPE SHIELD



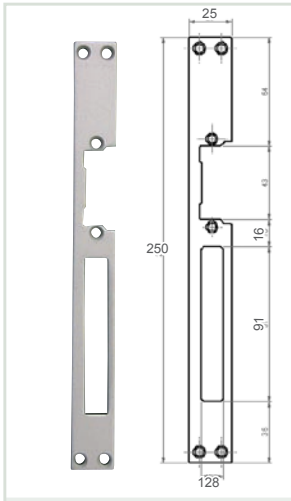
2868 MX-TYPE SHIELD



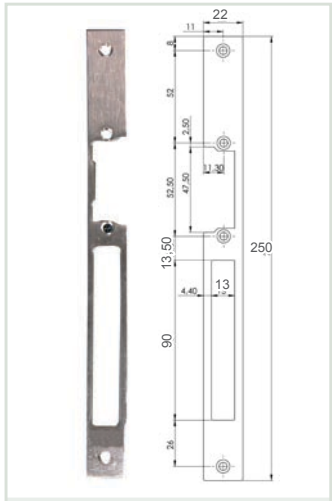
2985 GE-TYPE SHIELD



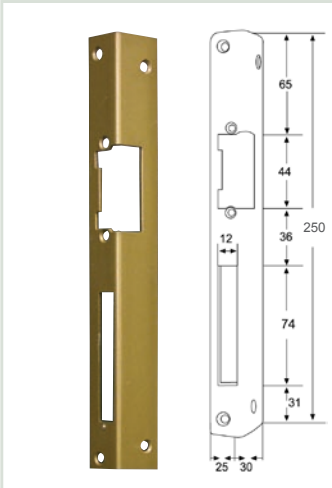
2895 T-TYPE GREY SHIELD



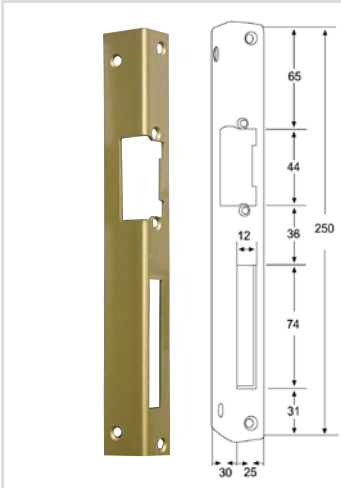
3088 L-TYPE GREY SHIELD



2892 L22-TYPE GREY SHIELD



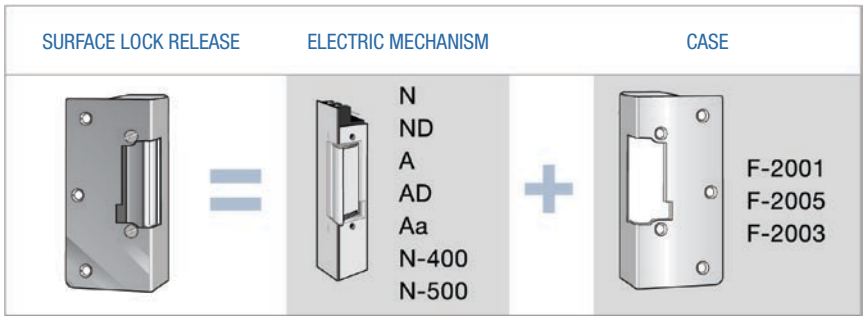
2976 1001-TYPE BROWN SHIELD. LEFT DIN.



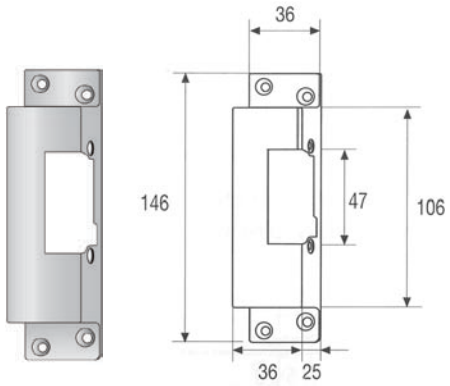
2977 1002-TYPE BROWN SHIELD. RIGHT DIN.

Cases. Surface lock release

Metallic trim along with an electrical mechanism makes up a surface-mounted lock release.

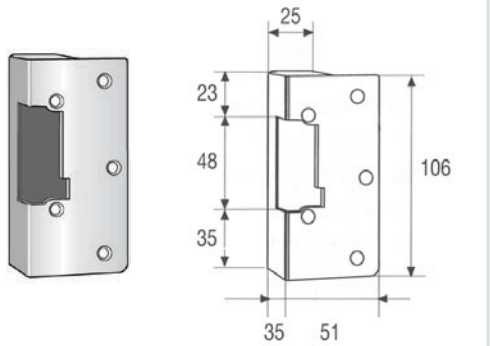


1. VISIBLE ATTACHMENT ON FRAME

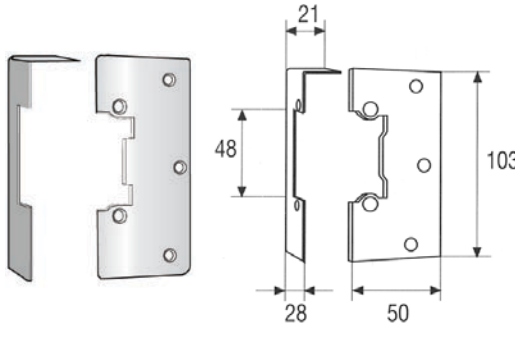


One-piece models.
2979 2001-TYPE CHROME CASE
2987 2006-TYPE GREY CASE

2. HIDDEN FRAME ATTACHMENT



One-piece models.
2983 2005-TYPE CHROME CASE
2964 2007-TYPE GREY CASE



Two-piece models.
2981 2003-TYPE GREY COVER/CASE

Power Supplies

DIN4 format. To power the lock release in AC (Vac) 1,5A.

4800 POWER SUPPLY 12Vac/1,5A

DIN6 format. To power the lock release in DC (Vdc) 2A.

4813 POWER SUPPLY 12Vdc/2A

In the event of power failure, it is necessary to fit it to an adaptor. This connects to a standard lead acid battery.

2060 EMERGENCY BATTERY ADAPTOR 12 Vdc

2070	BATTERY 12V/2,2A ACID LEAD
2337	BATTERY 12V/7A ACID LEAD
3264	ELECTRIC LOCK COMMANDER. Vac

Door retainers

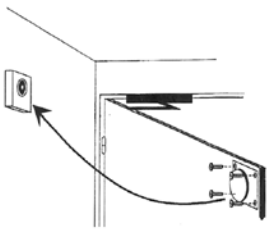
Door retaining magnets, designed for fire doors, are supplied with the backing plate kit both fixed and moving. They are inverted operation at 24 Vdc with a holding force of 50 Kg.

2897 FLOOR RETAINING MAGNET 24 Vdc/50 Kg

2899 WALL RETAINING MAGNET 2 INPUT 24 Vdc/50 Kg

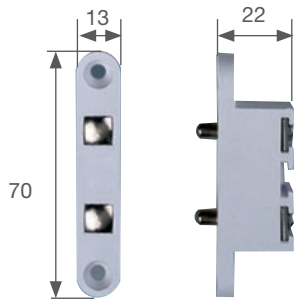
BACKING PLATE KIT

WALL RETAINER DIAGRAM

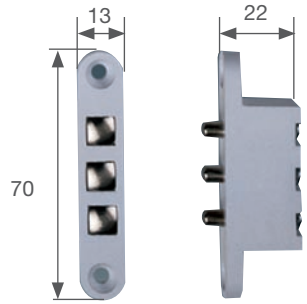


Contacts

The spring contacts are flush mounted in the frame and door respectively, leaving no visible wires, providing a reliable connection.
When the door is closed, the pistons that push against the other half keep up the electrical continuity desired. Approximate cut-off power: 1.5 Amp.

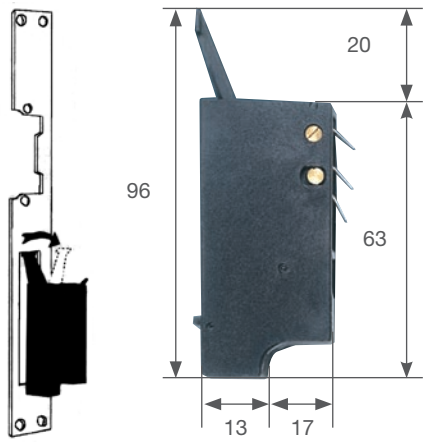


2913 DOOR CONTACT 2C (DOUBLE)



2922 DOOR CONTACT 3C (TRIPLE)

The 4C contacts with microswitch are installed in a long shield lock release (with latch/deadbolt).
When locked with a key, the pin pushes the lever which then signals the microswitch. Recommended for installations where it is necessary to check if all the doors of a building are locked or to activate any electrical device (service fan, etc..)



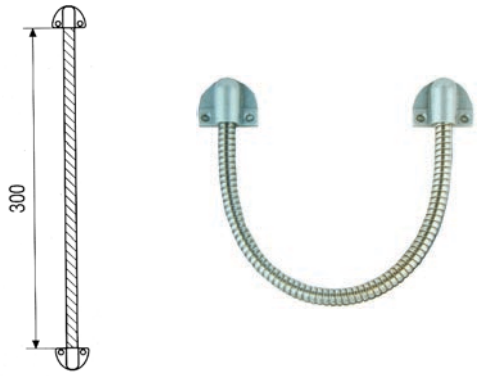
3082 DOOR CONTACT 4C (MONITORED DEADBOLT)

1076 MAGNETIC CONTACT

Cable conduits

Unlike spring contacts, they allow flow of current, even with the door open.

High quality flexible cable conduit (stainless steel) for surface mounting with external caps. Indicated when embedding contacts in the frame or door is not feasible.



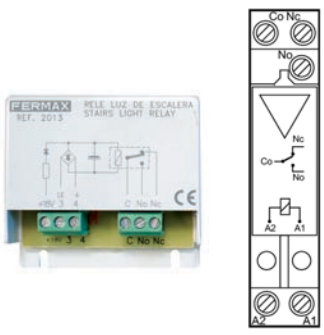
3083 FLEXIBLE CONDUIT

Vandal proof cable conduit with special structure allowing its flush mounting both in the door frame and panel. Can be fitted in metallic, wooden or PVC doors. Dimensions: 25(H)x330(V)x17(P) mm.

3084 RIGID VANDAL PROOF CONDUIT

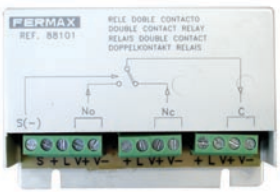
Relays

Allows to invert lock release activation in combined installations with a Fermax lock release.



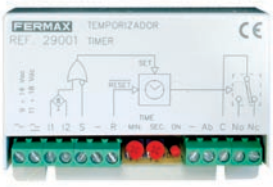
2013 RELAY 12Vac/12Vdc 2A
3491 RELAY DIN 12Vdc (220Vac/12A)

Recommended for additional functions. With 2 dry relay contacts, either normally open (NO) or normally closed (NC).



88101 RELAY 18Vdc DOUBLE CONTACT

Allows to time lock release activation for a programmable period from 0 to 6 minutes or 0 to 60 seconds.



29001 TIMMER


FERMAX
PROXIMITY ACCESS CONTROL

ACCESS CONTROL

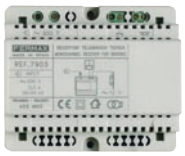
FERMAX

RADIOFREQUENCY
CITYLINE MEMOKEY
CITYLINE PROXIMITY

Radiofrequency. 433 MHz

STORE SYSTEM

Trinary dip-switch configuration. Exit button input. Output 12Vac for electric lock activation. Power supply 230Vac. DIN6 casing. For electrical cabinets. Dimensions: 105x90x60.



7903 RF RECEIVER SHOPS/STORES

For installation inside audio or video door entry systems.

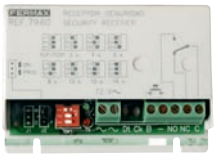
7900 COMPATIBLE SINGLE-CHANNEL RECEIVER

Trinary dip-switch configuration. A single code for all emitters.

79561 DUAL CHANNEL EMITTER 433 MHz TRINARY

SECURITY SYSTEM

Maximum 10 users. Exit button input. Output relay (2A,NC/NA). Programmable timing. Monostable/bistable operation. Power supply 12v AC/DC. Small dimensions, for concealing in electrical closets. Dimensions: 90x60x20.



7960 SECURITY RECEIVER

COLLECTIVE GARAGE SYSTEM

Trinary dip-switch configuration. Admits extension card for a 2nd channel for auxiliary activation (e.g. lift/elevator). Relay output (2A,NC/NA). Power supply 230Vac. ABS IP65 casing. Dimensions: 91x198x57.

7952 SINGLE-CHANNEL RECEIVER 433MHz
7934 SECOND-CHANNEL CARD

Digital transmitters have one unique code per user. Indicated for access to the garage/car park and remote control of devices: lights, shutters, sirens...

24651 DIGITAL EMITTER

Trinary dip-switch configuration. A single code for all emitters.

79561 DUAL CHANNEL EMITTER 433MHz TRINARY

Dimensions: (horizontal) x (vertical) x (depth) mm

Cityline Memokey

TECHNICAL FEATURES:

- Maximum capacity: 100 codes.
- Power supply 12Vac/12Vdc. Power supply 12Vac/1,5A (ref.4800) recommended.
- Input for indoor exit pushbutton.
- Input for free access pushbutton.
- 2 relay outputs (2A,NC/No), for lock release activation and alarm connection. Programmable timing.
- Each code can activate one or two relays simultaneously.
- Code accepted/rejected acoustic confirmation.
- Programming from keypad with master code.

SPECIFICATIONS

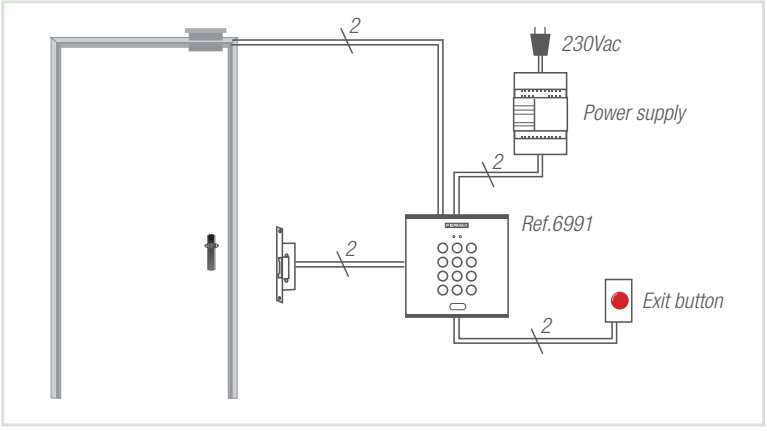
Dimensions:	
Reader	130x128
Flush box	115x114x45
Surface box	130x128x33
Environmental protection (IP):	54
Shock resistance (IK):	07
Power supply (V):	12 Vac/dc
Consumption (mA) w/lock.:	40/110
Operating temperature:	-15º to 55º C

REFERENCES

6991 CITYLINE MEMOKEY READER

Outdoor/Indoor. Integrated in aluminium panel. Backlit keypad manufactured in zamak with signal LEDs.
Flush box included (ref.8948). Surface box optional (ref.7061).

INSTALLATION



Dimensions: (horizontal) x (vertical) x (depth) mm

Cityline Proximity

TECHNICAL FEATURES:

- Up to 400 users.
- Power supply 12 Vac/Vdc. Power supply 12Vac/1,5A (ref.4800) recommended.
- Exit button input.
- Door sensor input. Forced/open door detection.
- Lock release triggered by relay. Programmable timing.
- LED and buzzer confirm acceptance or rejection of the card presented.
- Programming help LEDs (authorizations, cancellations).
- User programming from reader using master card or by PC (optional).

SPECIFICATIONS

Dimensions:	
Reader	130x128
Flush box	115x114x45
Surface box	130x128x33
Environmental protection (IP):	54
Shock resistance (IK):	07
Power supply (V):	12 Vac/dc
Consumption (mA) w/lock.:	90
Operating temperature:	-15º to 55ºC

REFERENCES

6992 CITYLINE PROXIMITY READER
Outdoor/Indoor. Integrated in aluminium panel. Flush box included (ref.8948). Surface box optional (ref.7061).

2306 PROGRAMMING KEYPAD

24661 READER-PC INTERFACE
For managing user authorizations/cancellations via PC (optional). The WINPROX software may be downloaded from www.fermax.com

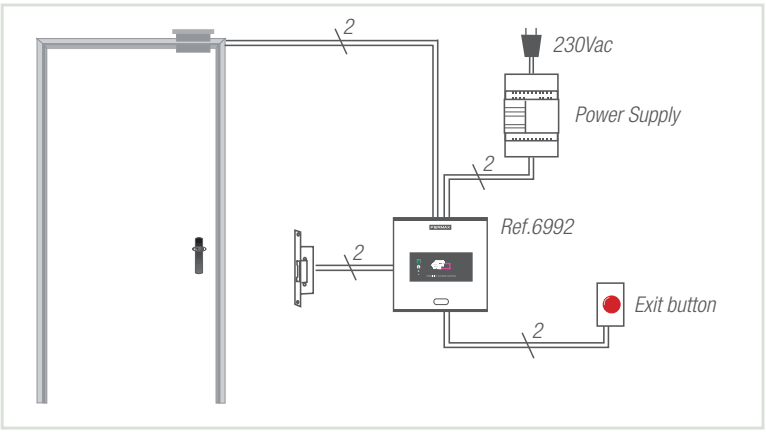
Identifiers

23361 PROXIMITY CARD WITHOUT MAGNETIC STRIP

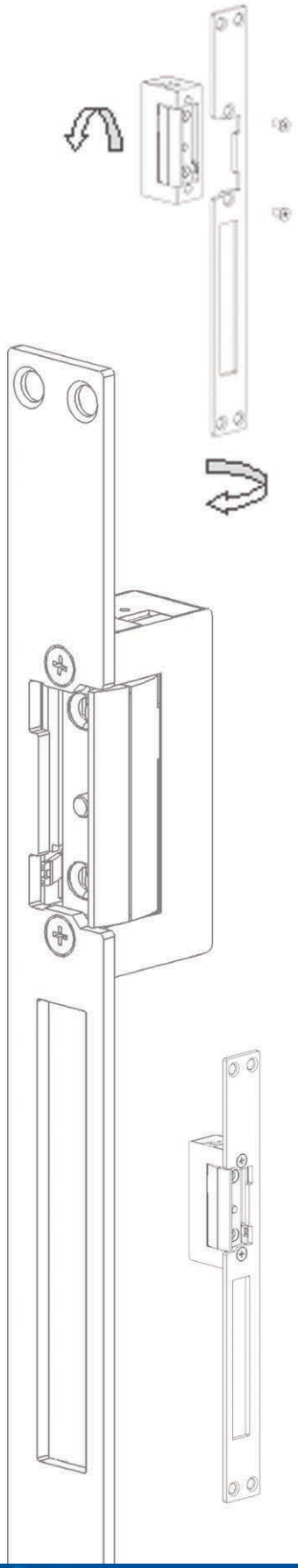
2336 PROXIMITY CARD WITH MAGNETIC STRIP

44501 PROXIMITY KEYRING

INSTALLATION



Dimensions: (horizontal) x (vertical) x (depth) mm

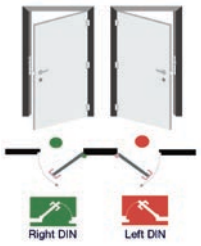


ASSEMBLY INSTRUCTIONS

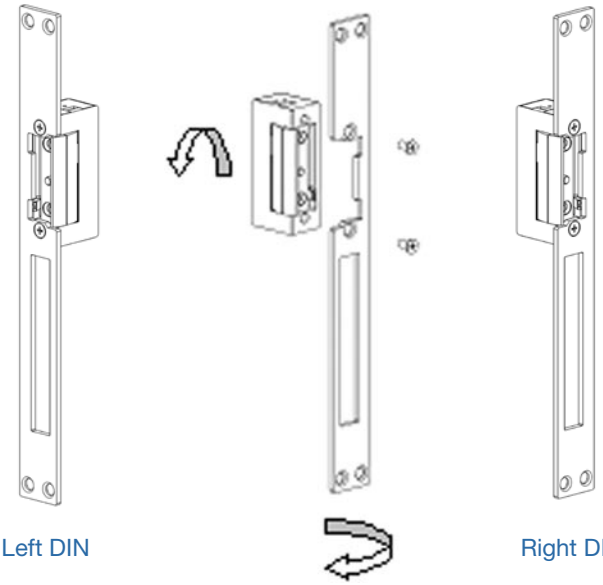
FERMAX

Hand change: Left DIN - Right DIN

1. Remove the screws on the front, removing the shield from the mechanism.
2. Turn the shield 180º horizontally and the mechanism vertically.
3. Screw back on again to fit the shield to the mechanism.



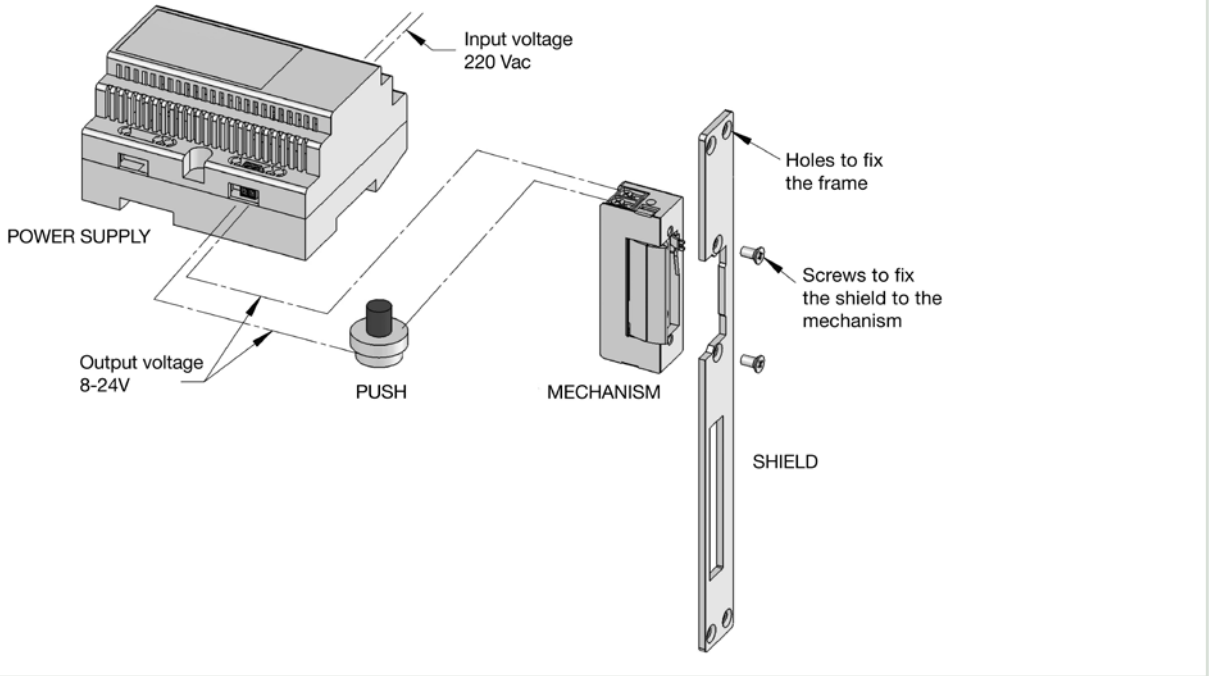
Standard DIN



Left DIN

Right DIN

ELECTRICAL INSTALLATION

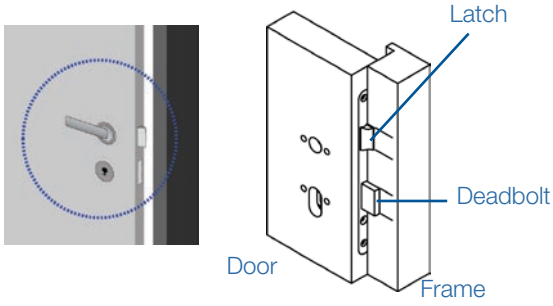


ASSEMBLY TIPS

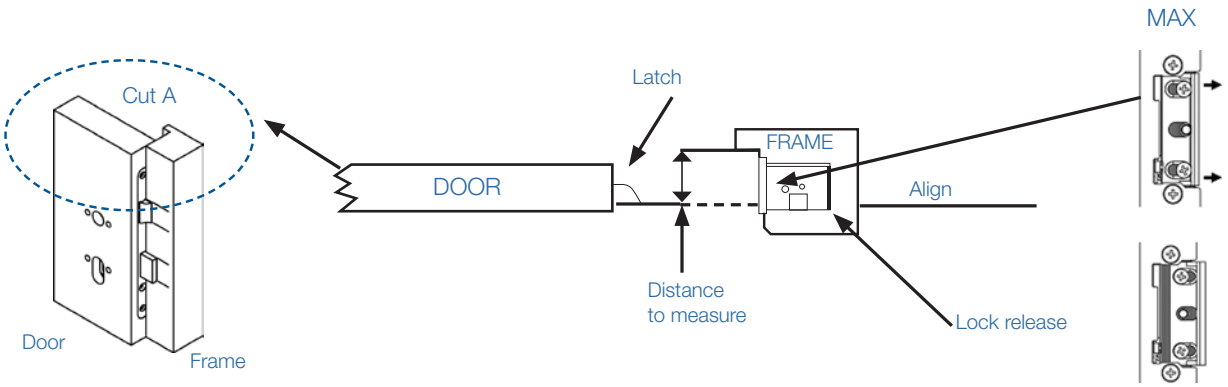
- Before making electrical connections, please check the lock release electrical specifications as well as the voltage and type of current supplied by the power supply.
- Remove any remaining traces of material from the framework where the lock release will be introduced.
- Do not apply any kind of paint or coating to the lock release or its shield.
- Do not grease the mechanism.
- Do not remove the mechanism cover.
- Keep the lock release free from moisture.

Lock assembly

1 Close the door and mark the latch position (and the deadbolt if there is one) on the frame to define the vertical position.



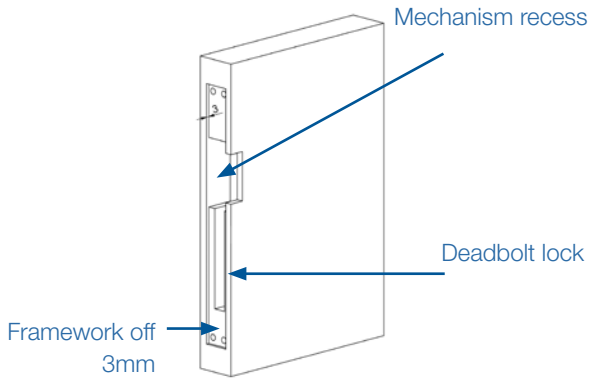
2 Align the flat surfaces of the latch and the lock release deadbolt so that they are parallel and with a minimum clearance, so that the latch does not exert pressure on the lock release bolt. Measure the distance indicated with which you can define the horizontal position.



NOTE: With automatic mechanisms A, the latch must press on the bolt mechanism (approx. 3mm) for it to work automatically.

The MAX version adjustable latch allows an exact fit between latch and bolt up to 4mm.

3 When the vertical and horizontal position of the lock release has been defined, make a hole in the door frame to fit the mechanism and lock.
The box housing and lock mechanisms must have a minimum depth of 31mm (or higher for series 620, 460, 470 or if the lock bolt requires more depth).



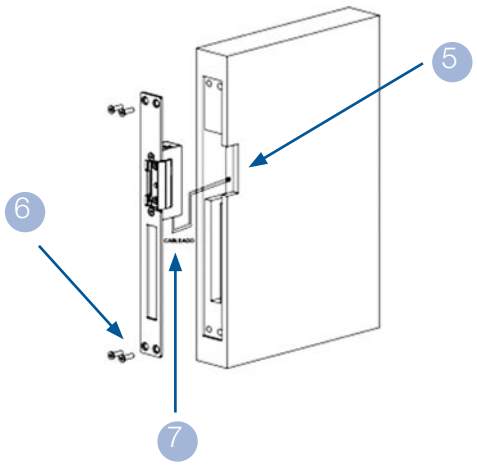
4 Make a 3mm framework to fit the shield, to keep it in the same plane.

Lock assembly

5 Additionally, a fitting is needed on the side for movement of the 5 lock release latch/bolt.
In the 410 Series this is no longer required, as it has a radial latch.

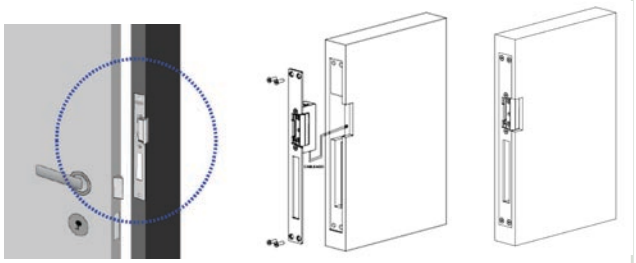
6 Mark the holes for the anchor screws.
Must be drilled to fit the holes in the shield

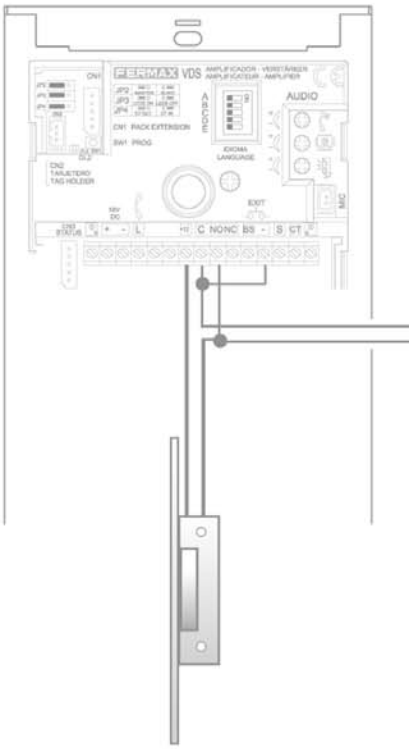
7 The wiring hole must be made inside, near the lock release casing.

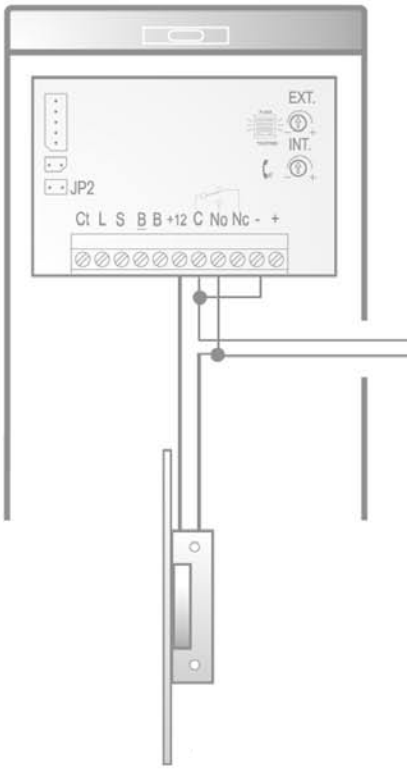


8 Connect the wires. Fit the lock release in the recess and tighten the holding screws.

The shield surface and frame must be on the same plane so that the door can close properly.

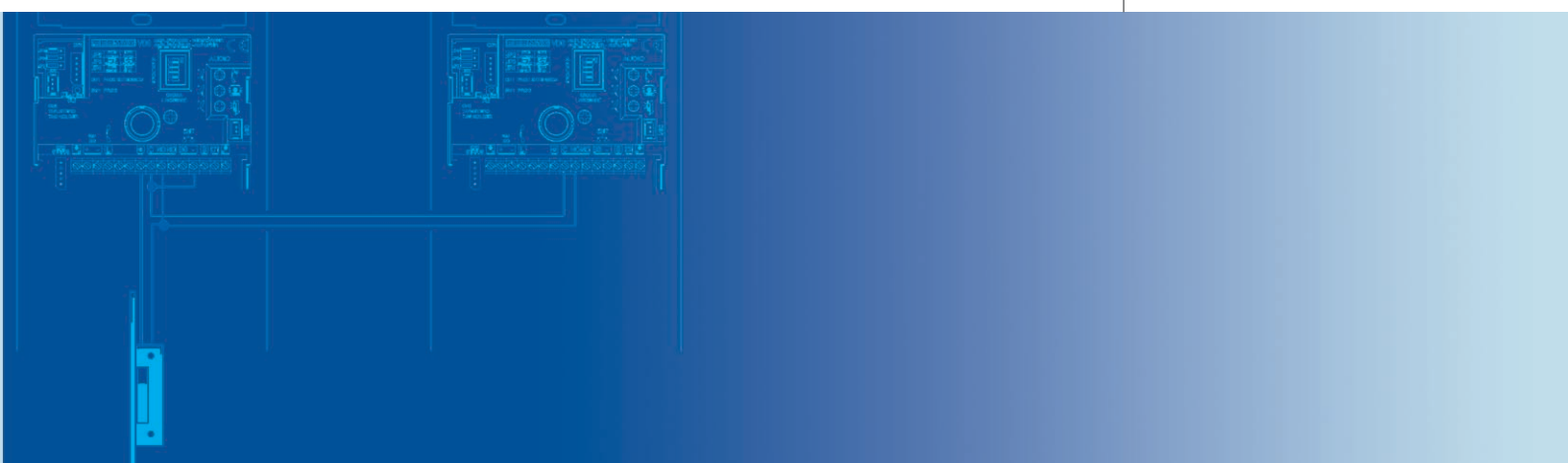




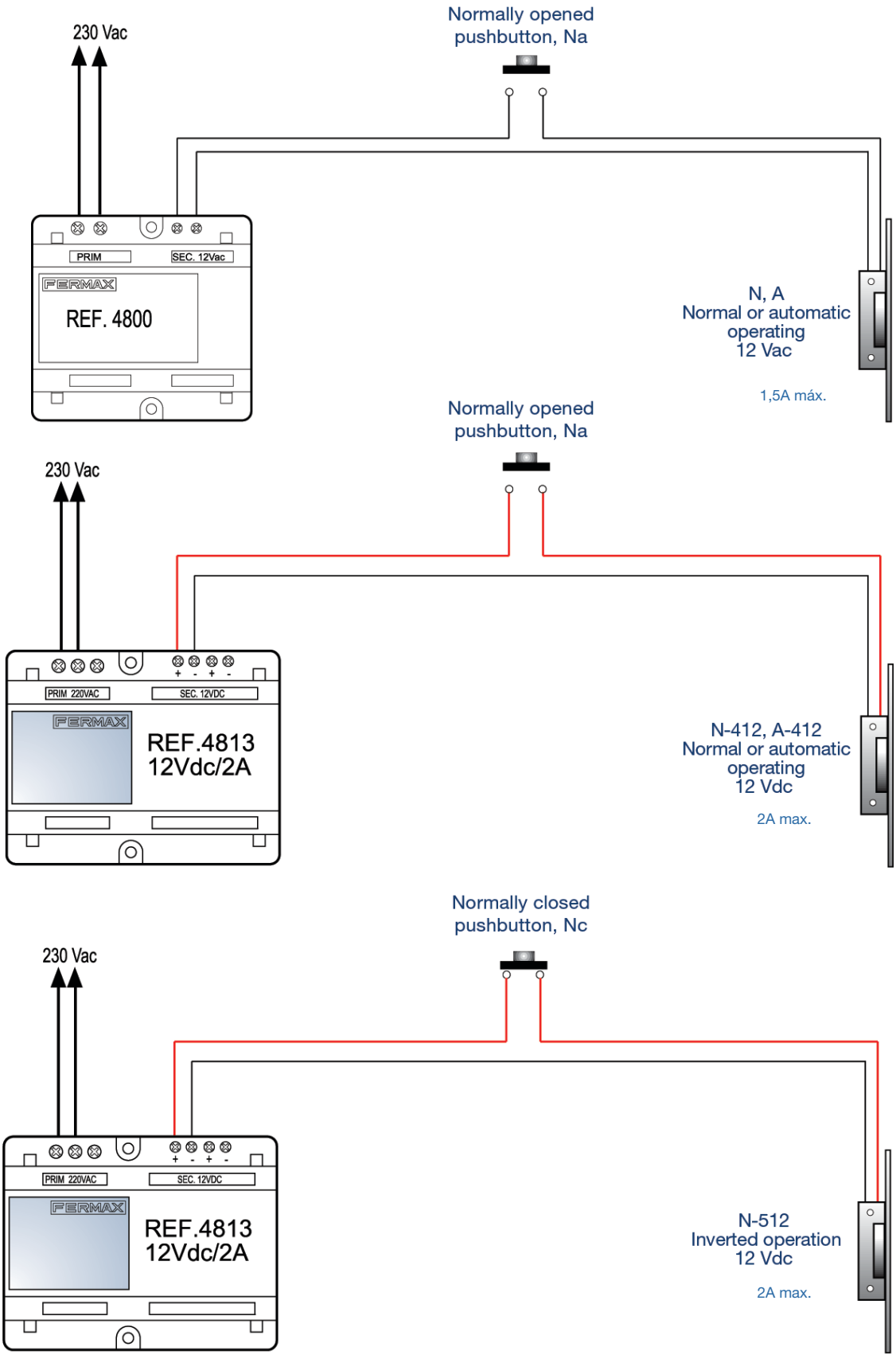


INSTALLATION DIAGRAMS

FERMAX

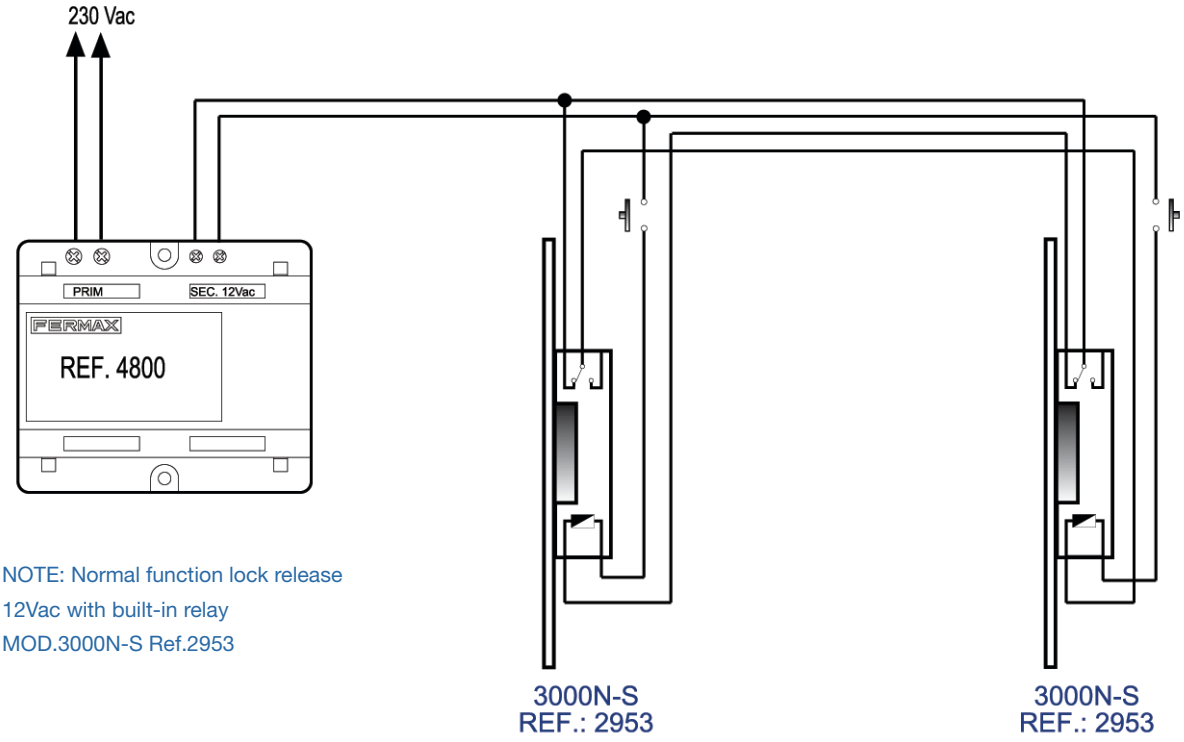


DOOR OPENING BY LOCK RELEASE OPERATION



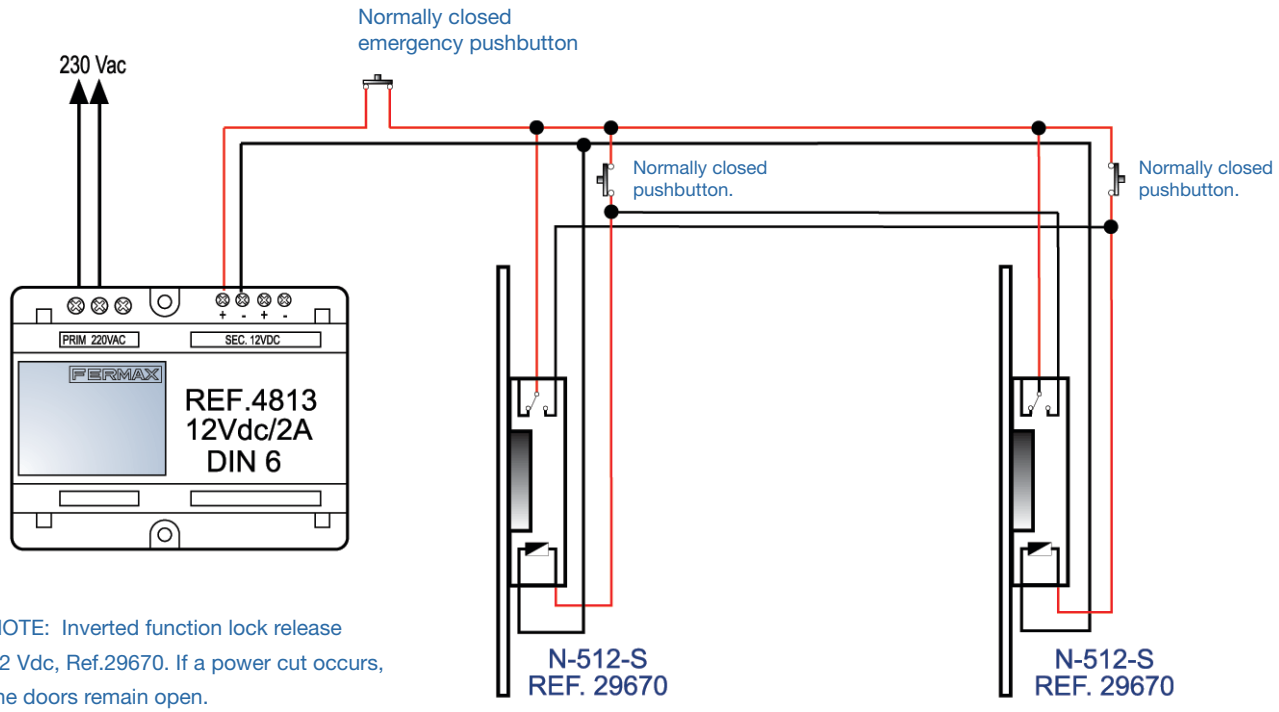
DOOR OPENING WITH AUTOMATIC BLOCKING OF ANOTHER DOOR.

NORMAL OPERATION 12 Vac



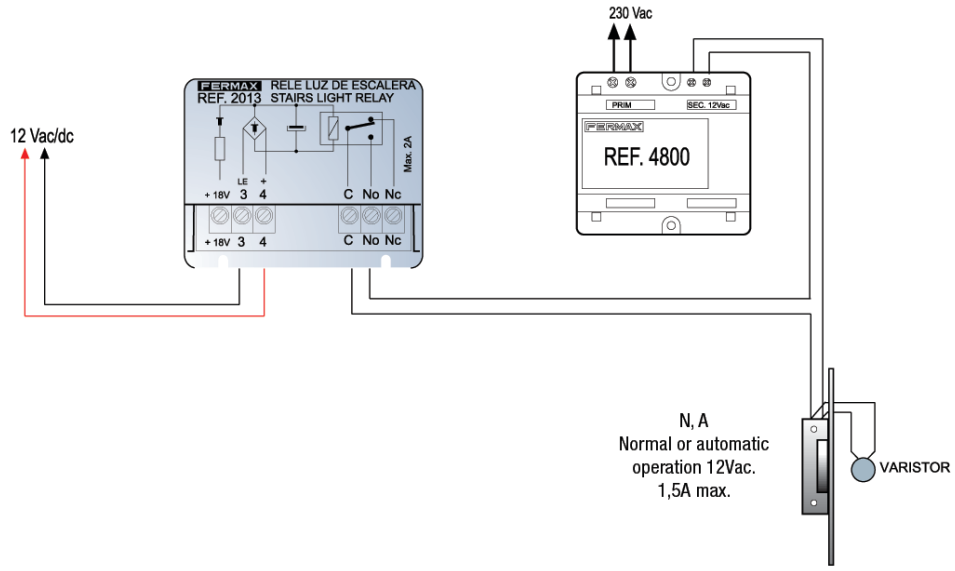
NOTE: Normal function lock release
12Vac with built-in relay
MOD.3000N-S Ref.2953

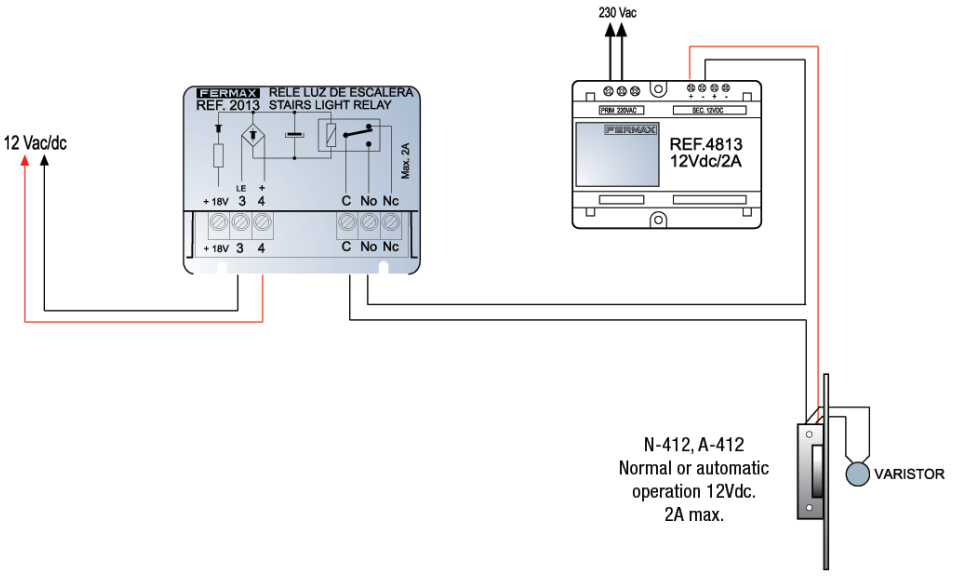
INVERTED OPERATION 12 Vdc

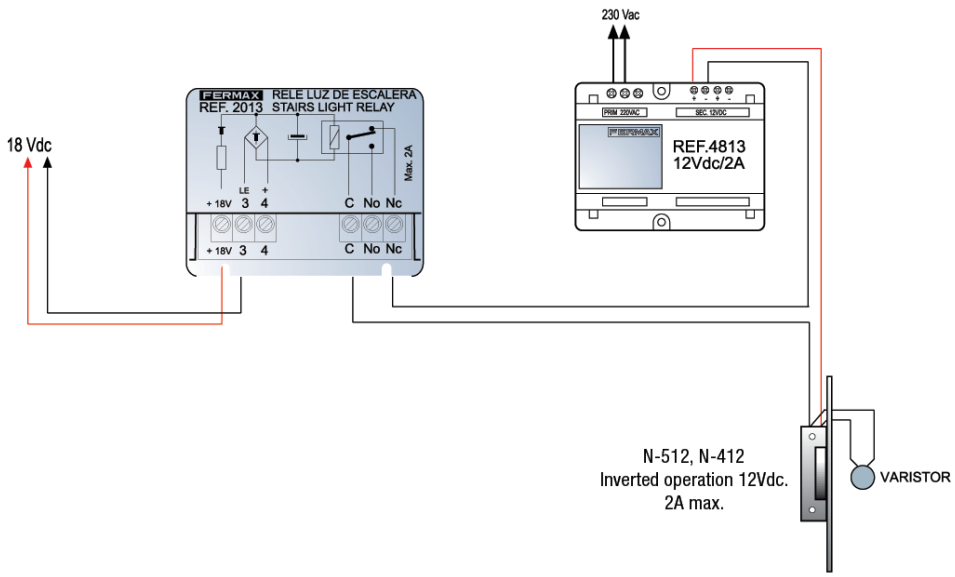


NOTE: Inverted function lock release
12 Vdc, Ref.29670. If a power cut occurs,
the doors remain open.

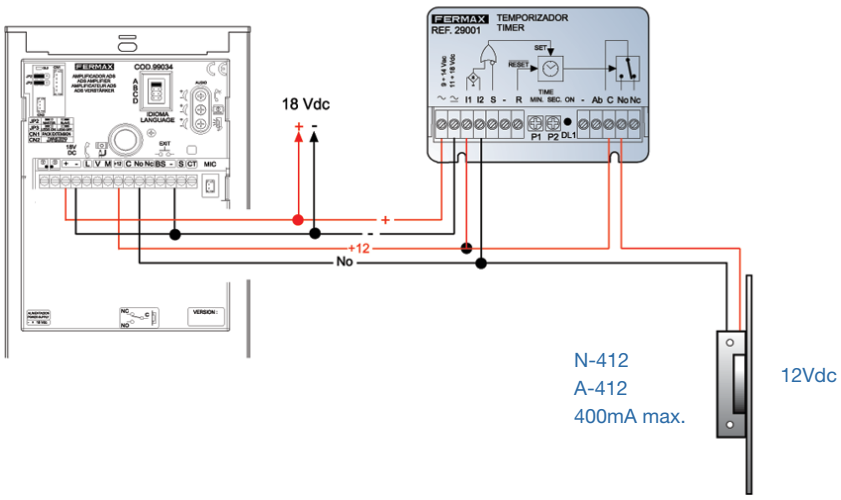
INSTALLATION WITH RELAY REF.2013 ACCORDING TO LOCK RELEASE OPERATING TYPE

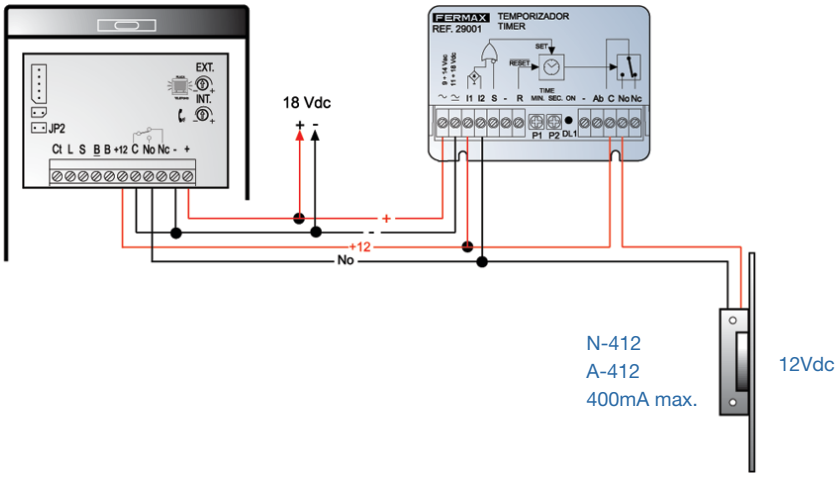


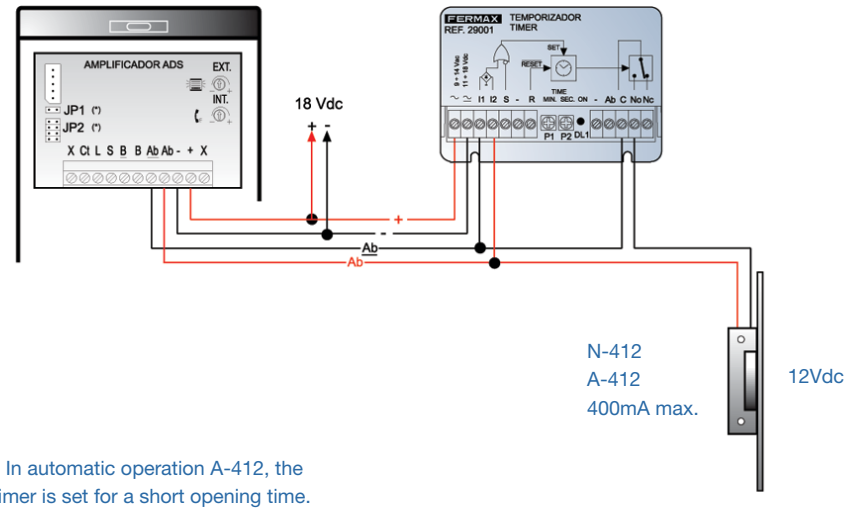




VDS/ADS DOOR OPENING WITH TIMER

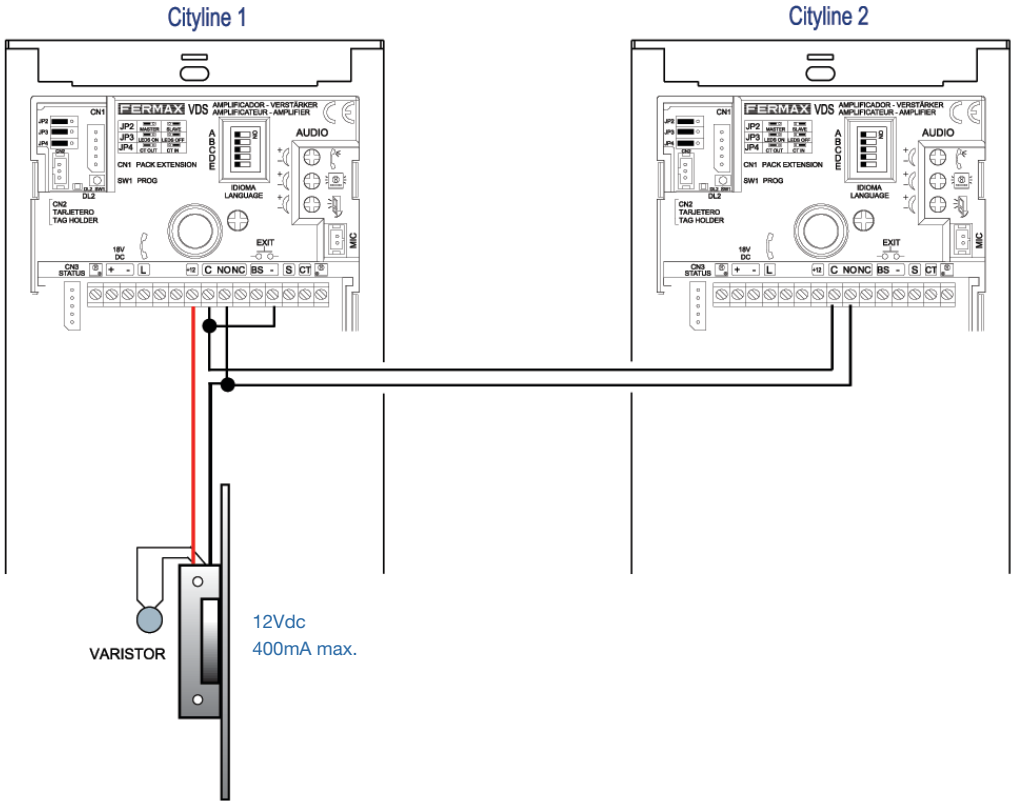


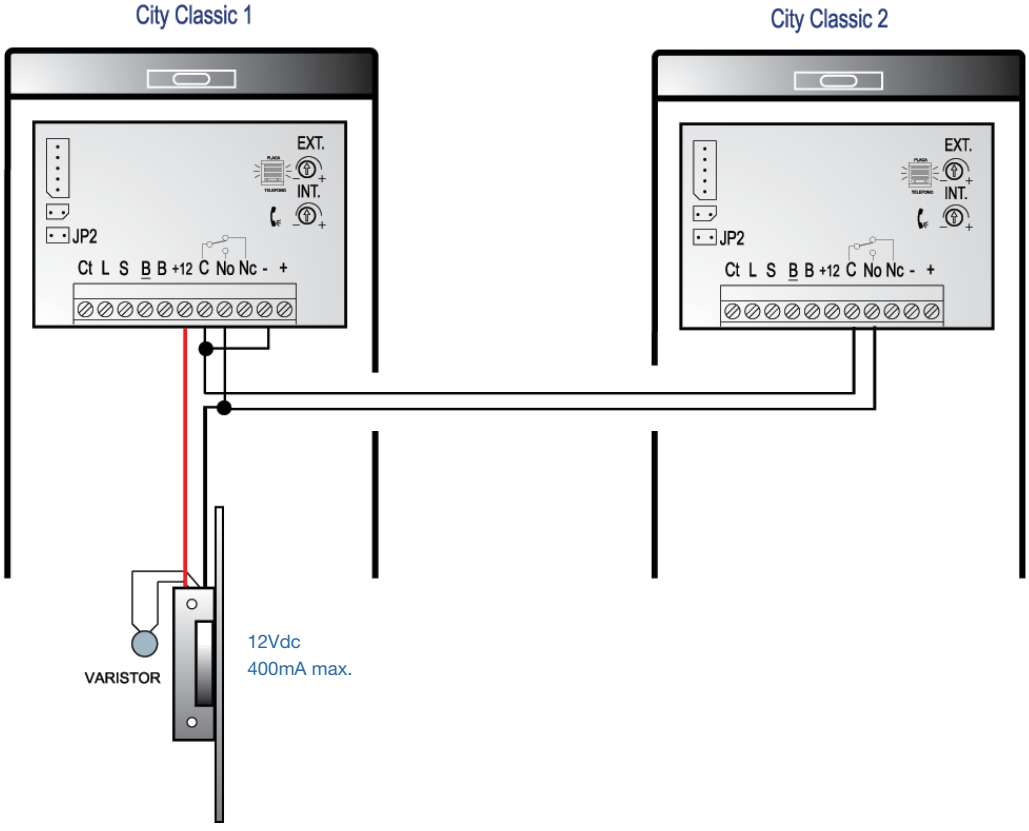




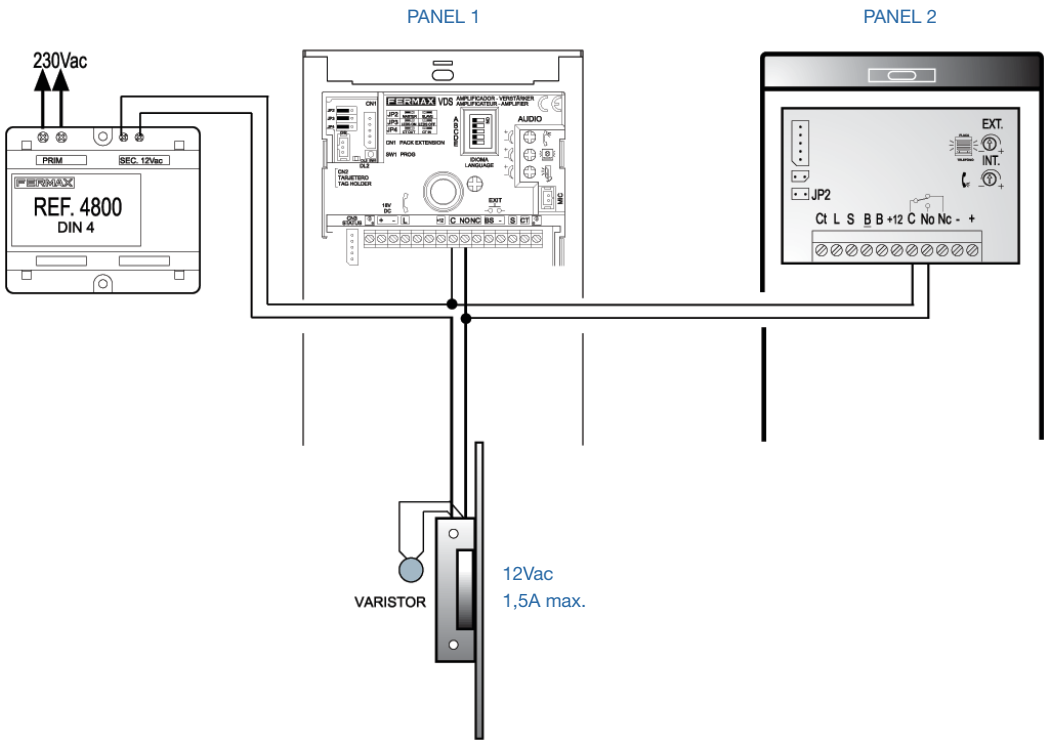
* In automatic operation A-412, the timer is set for a short opening time.

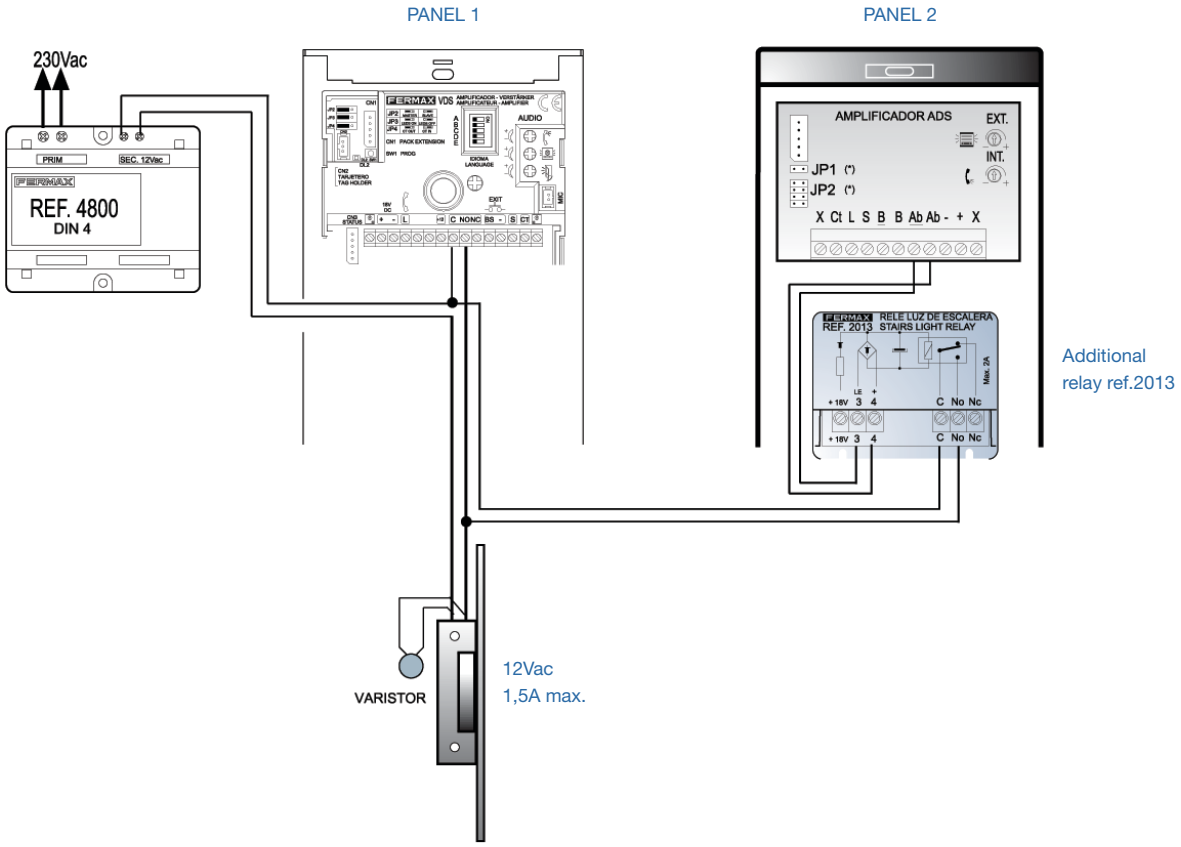
OPENING THE SAME DOOR (12Vdc)





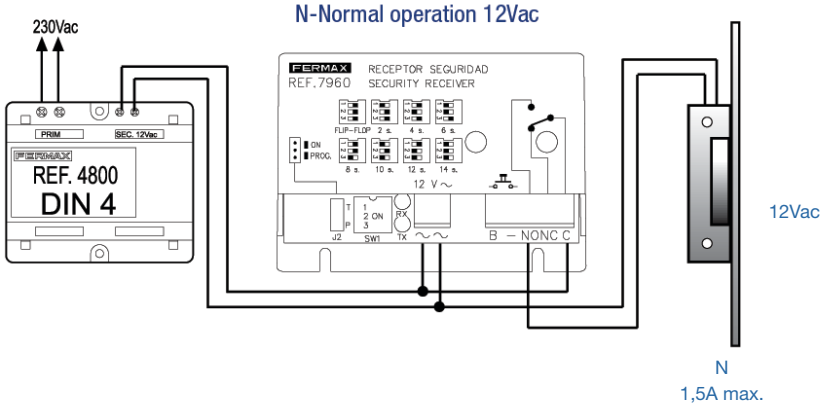
OPENING THE SAME DOOR (12Vac)





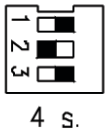
REMOTE CONTROL OPENING. RECEIVER REF.7960

N-Normal operation 12Vac



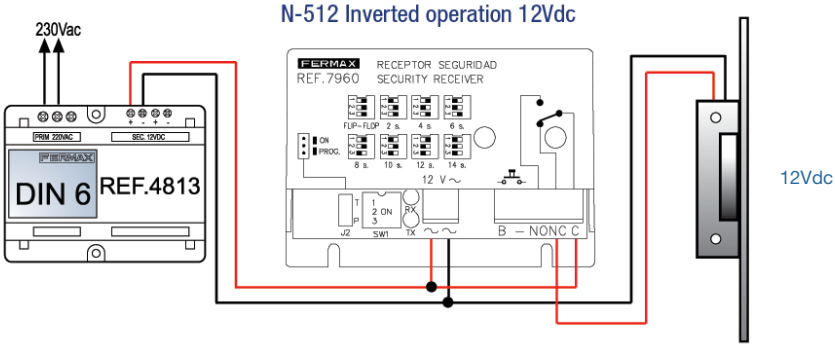
12Vac

N
1,5A max.



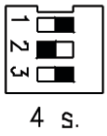
Monostable receiver configuration.
Each pressing of the emitter
will open the door during 4s.

N-512 Inverted operation 12Vdc



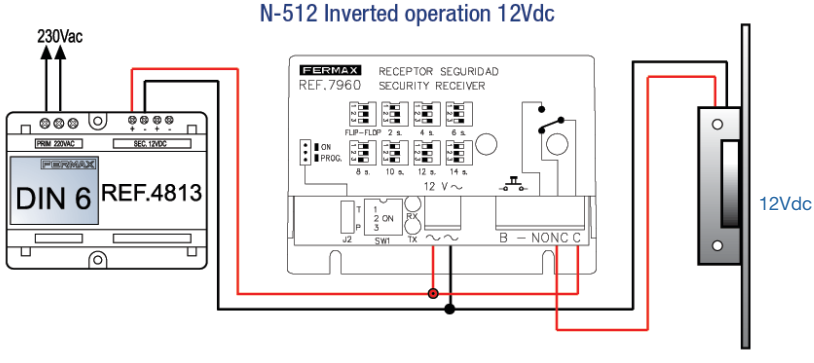
12Vdc

N-512
2A max.



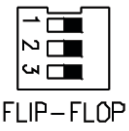
Monostable receiver configuration.
Each pressing of the emitter
will open the door during 4s.

N-512 Inverted operation 12Vdc



12Vdc

N-512
2A max.



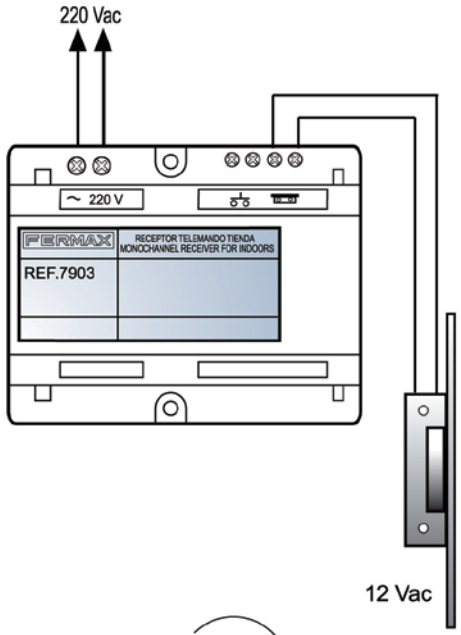
Flip-flop receiver configuration.
Each pressing of the emitter
will open or close the door.

Remote control Ref.24651 emitter

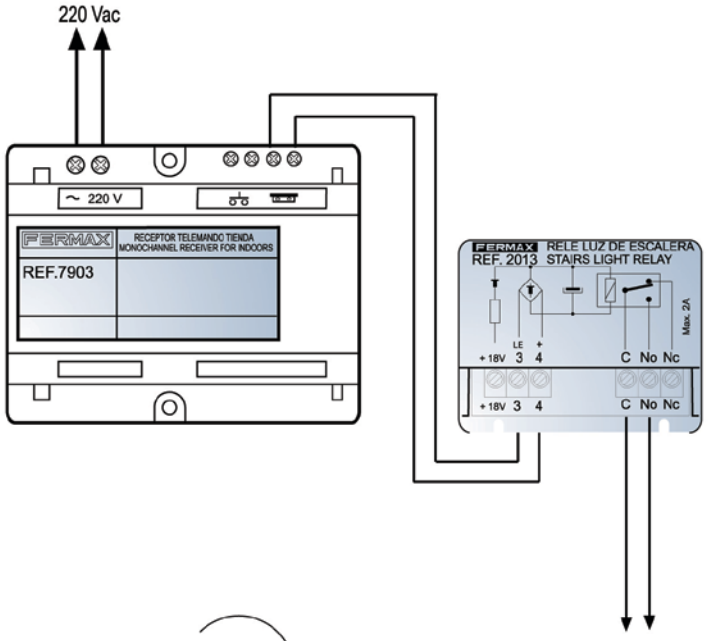
NOTE: Normal operation door release 12Vac, Ref.3071.
Inverted operation door release 12Vdc, Ref.2967.
This receiver requires remote controls Ref.24651.

REMOTE CONTROL OPENING. RECEIVER REF.7903

OPENING OF A NORMAL OPERATION
DOOR RELEASE 12Vac



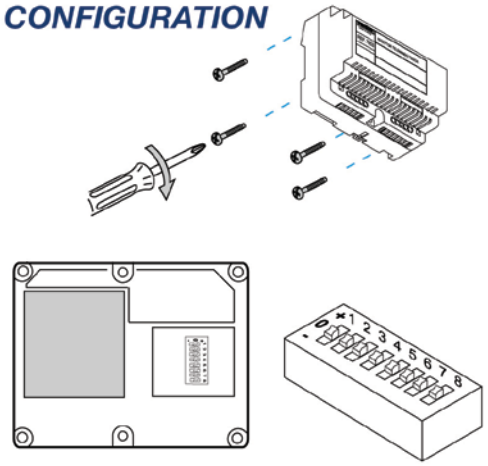
ACTIVATION OF AN AUXILIARY RELAY
TO ACTIVATE GARAGE DOOR



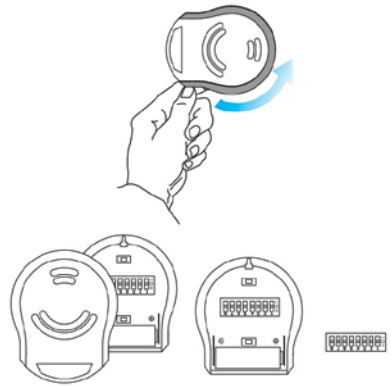
Connect to the dry contact input of the motor/gate.

NOTE: When the emitter 79561 is activated the receiver 7903 will supply a voltage of 12 Vac during a few seconds.

CONFIGURATION

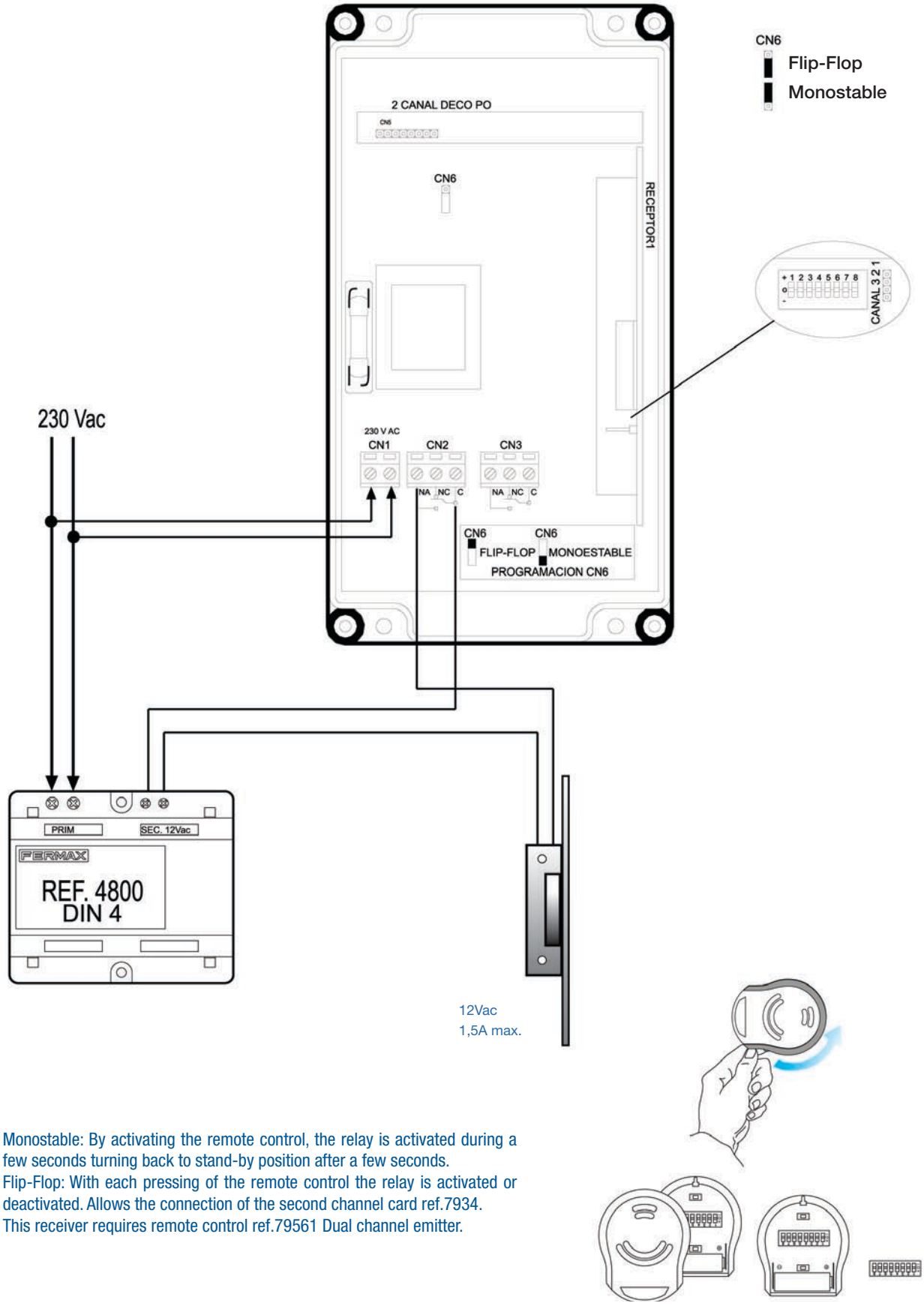


NOTE: Access the inside of the ref.7903 to configurate the microswitchs the same way as the emitter.



Requires emitter ref.79561.

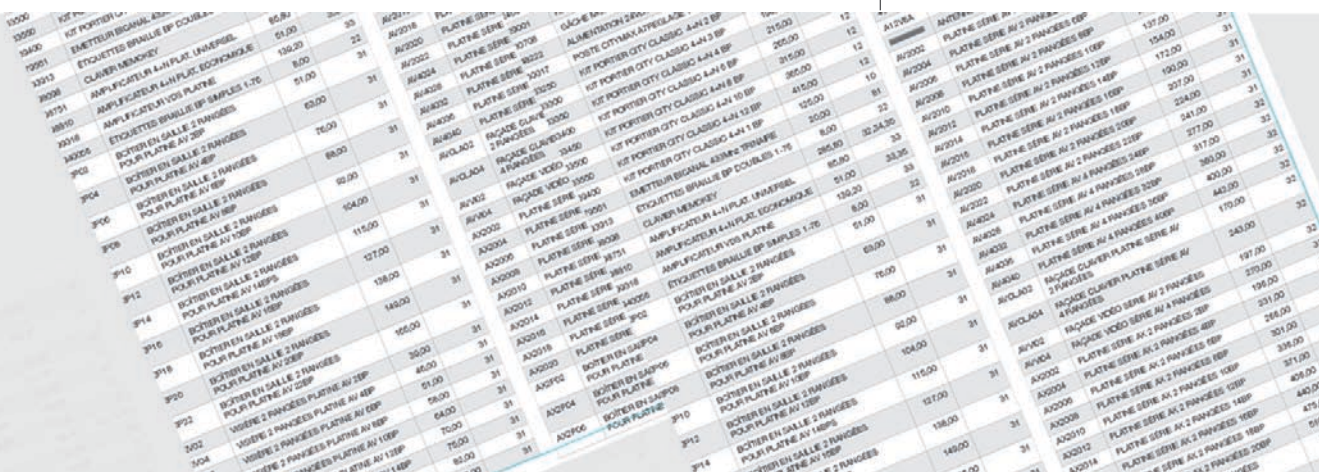
REMOTE CONTROL OPENING. RECEIVER REF.7952



Monostable: By activating the remote control, the relay is activated during a few seconds turning back to stand-by position after a few seconds.
Flip-Flop: With each pressing of the remote control the relay is activated or deactivated. Allows the connection of the second channel card ref.7934.
This receiver requires remote control ref.79561 Dual channel emitter.

REFERENCE INDEX

FERMAX



REFERENCE INDEX

REFERENCE INDEX

DESIGN
Fermax Electrónica S.A.U.

DOOR LOCK RELEASE
1st Edition. February 2012

620 SERIES

460 SERIES

470 SERIES

9000 SERIES

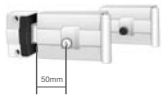
850 SERIES

CII SERIES

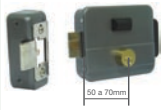
ELECTROMAG.

P SERIES

930 SERIES



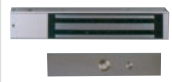
960 SERIES



8000 SERIES

C SERIES

ELECTROMAG.



ELECTROMAG.

FERMAX

Audio and Video Door Entry Systems

www.fermax.com doorlock@fermax.com

PU00054