

# FERMAX

# 2017 DOOR LOCK RELEASE

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**DESIGN** Fermax Electrónica S.A.U.

**2017 DOOR LOCK RELEASE CATALOGUE** 1° Editionn. September 2017

# INDEX



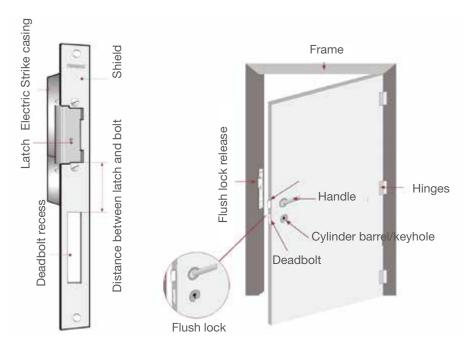
	>	INTRODUCTION What is an electric lock release? Operating modes	02 04	D2 INTRODUCTION
	>	DOOR LOCK SELECTION Quick Guide	06	06 SELECTION
	>	LOCK RELEASE TYPES Flush Surface	10 26	<b>10</b> TYPES
8	>	ACCESSORIES Shields and cases Power supplies and retainers. Contacts, cable conduits and relays Close	36 39 40 42	34 ACCESSORIES
	>	ACCESS CONTROL		43 ACCESS CONTROL
	>	DESCRIPTION Composition Glossary of terms	50 51	50 DESCRIPTION
J	>	ASSEMBLY INSTRUCTIONS WIRING DIAGRAMS	54 57	54 INSTRUCTIONS
		REFERENCE INDEX	68	

What is an electric lock release? Lock release parts

### What is an electric lock release?

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

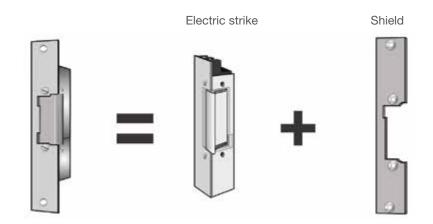
#### **FLUSH LOCK**



## Lock release parts

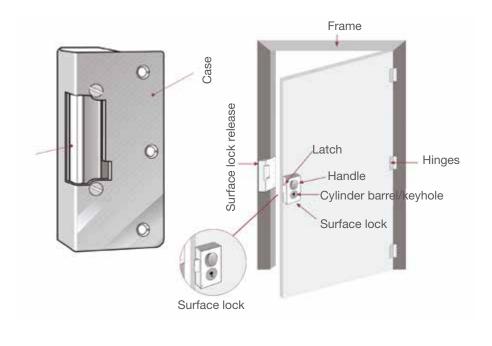
A lock release consists of an electric strike and a shield or case depending on whether it is flush or surface mounted.

#### FLUSH LOCK





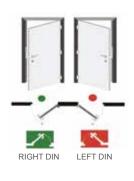
#### SURFACE LOCK



#### **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:

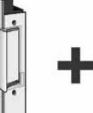
- . If the hinges are on the left of the observer, it is a left DIN.
- . If the hinges are on the right of the observer, it is a right DIN.



#### SURFACE LOCK







Electric strike



0

#### ELECTRIC STRIKE

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

#### SHIELD OR CASE

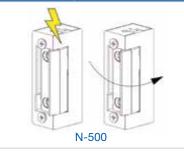
Part receiving power feed to open or close the door. Several models are available, depending on the OPERATING MODE.

## Electric Strike

#### **OPERATING MODES**



#### Invertided Operation N-500 Fail-unlocked or Fail-safe



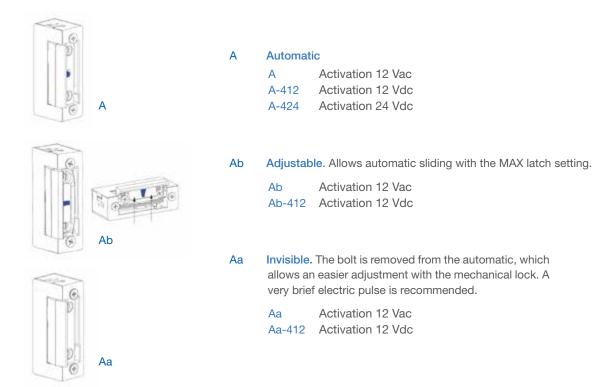
Allows door opening while power to the lock release is off.

N-512	Activation	12 Vdc
N-524	Activation	24 Vdc

#### Automatic Operation - A

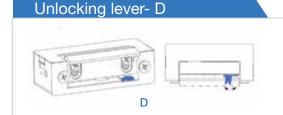
#### A (Automatic), Ab (Adjustable) and Aa (Invisible)

Enables door opening with a short electric pulse. The lock release is automatically blocked when the door closes again.





#### FEATURES



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 unlocking lever.

AD Automatic operation with unlocking lever.

#### Built-in microswitch - CTC



Alows monitoring of door status (open/closed). Suitable for security systems. Not available for MAX version.

#### Adjustable latch bolt - MAX

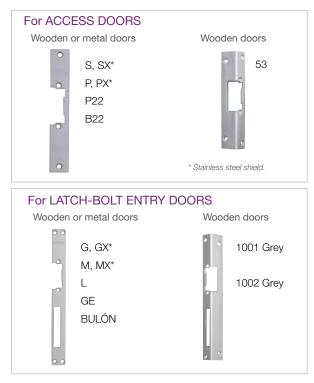


If the lock description contains MAX, it indicates that the latch is adjustable, allowing a perfect fit between latch and bolt in the lock, with a 4mm margin.

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

### Shields

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



### Cases

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



#### HIDDEN frame attachment

2005 Chrome CASE

2007 Grey CASE



One-piece models.



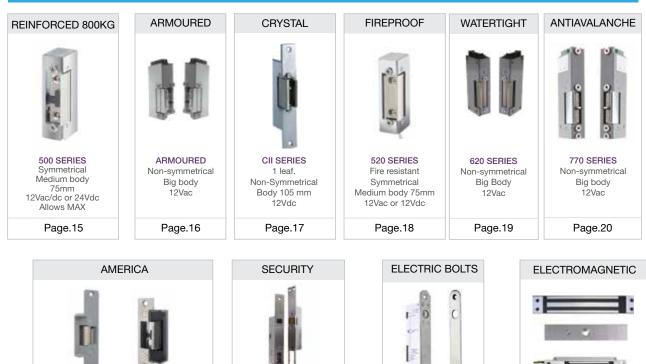
Two-piece models.

# Quick guide

#### Flush-mounted lock release



#### SPECIALS



850 SERIES

SECURITY LOCK

Automatic operation

12Vac or 12Vdc

Page.22

ELECTROMAGNETIC Body 194 mm 12Vdc or 24Vdc Resistance 300kg

700 SERIES

Inverse Function

Body 163 mm

12 Vdc or 24 Vdc

Page.23

#### Page.24

460

Body 75 mm Symmetrical 470

Body 75 mm Symmetrical

460 and 470 SERIES

Protected bolt

12Vac

Page.21



#### Surface-mounted lock release

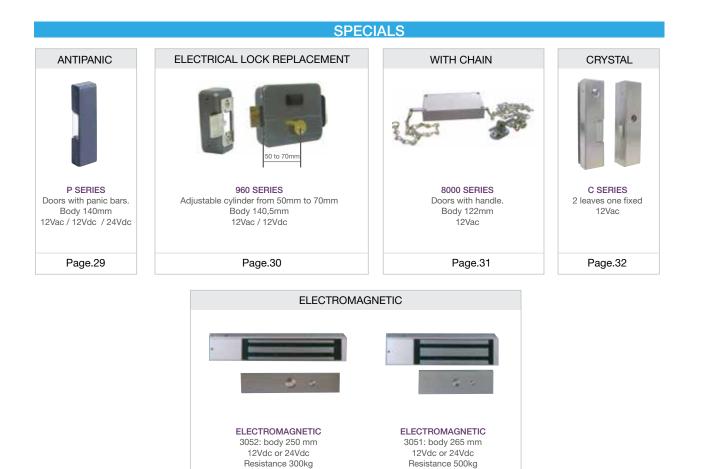


Page.26



Page.27

Page.28



Page.33



# FLUSH MOUNTED



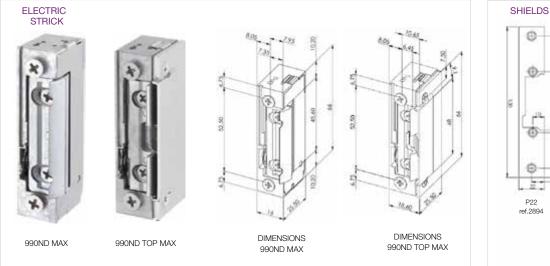


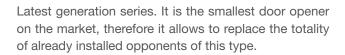
STANDARD. SPECIALS.



### UNIVERSAL

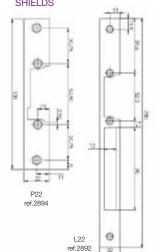
#### 990 SERIES. Universal





The TOP version includes a special cover that facilitates your installation of recessed as no special draft is required for the movement of the latch. It is recommended in TOP version to use short closed reinforcement YSX, YBX or long YGX, YLX.

- Multivoltage 10-24V.
- AC and DC operation.
- Depth 25.5mm.
- Radial latch
- Simmetrical
- Reversible (Right DIN or left DIN).



profile cut.



cut in profile

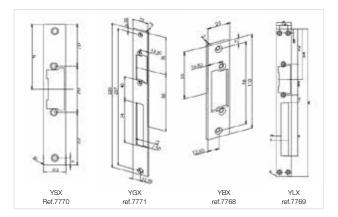
#### **SPECIFICATIONS**

Consumption:	N 12Vac: 250mA	24Vac: 500mA	
	12Vdc: 250mA	24Vdc: 560mA	
Dimensions:	66(V) x 16(H) x 25.5(I	⊃)mm.	
	Version TOP 66(V) x 18,5(H) x 25.5(P)		
MAX adjustment:	2mm		
Retention force:	330Kg-f / 3230N		
Temperature:	-15°C hasta +40°C		
Tested cycles:	400.000		

#### REFERENCES

#### ELECTRIC STRIKE

10-24 Vac-dc			
6750	ELECTRIC STRIKE 990N MAX		
1813	ELECTRIC STRIKE 990ND MAX		
1814	ELECTRIC STRIKE 990ND TOP MAX		
6752	ELECTRIC STRIKE 990A MAX		
1815	ELECTRIC STRIKE 990AbD MAX		
6753	ELECTRIC STRIKE 990AD MAX		
1816	ELECTRIC STRIKE 990AD TOP MAX		
12 Vdc			
6780	ELECTRIC STRIKE 990N-512 MAX		
6781	ELECTRIC STRIKE 990ND-512 MAX		
24 Vdc			
6790	ELECTRIC STRIKE 990N-524 MAX		
СТС			
67500	ELECTRIC STRIKE 990N-CTC MAX		
67800	ELECTRIC STRIKE 990N-512 CTC MAX		
67900	ELECTRIC STRIKE 990N-524 CTC MAX		



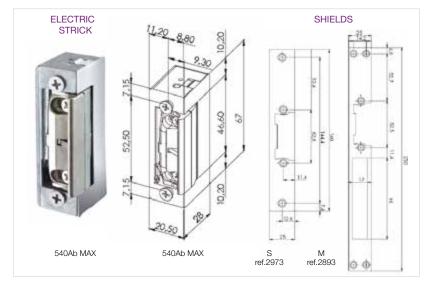
#### LOCK RELEASE

10-24 Vac-0	10-24 Vac-dc			
With sho	rt shield (P22-type)			
67501	LOCK RELEASE 990N-P22 MAX			
67511	LOCK RELEASE 990ND-P22 MA			
67521	LOCK RELEASE 990A-P22 MAX			
1824	LOCK RELEASE 990Ab-P22 MAX			
67531	LOCK RELEASE 990AD-P22 MAX			
With long shield (L22-type)				
1817	LOCK RELEASE 990ND-L22 MAX			
67522	LOCK RELEASE 990A-L22 MAX			
1823	LOCK RELEASE 990Ab-L22 MAX			
67532	LOCK RELEASE 990AD-L22 MAX			

### **STANDARD**



#### 540 SERIES. STANDARD



#### **SPECIFICATIONS**

Consumption:				
N, A, Aa	12Vac: 560mA			
N-412	12Vdc: 250mA			
N-512	12Vdc: 200mA			
N-524	24Vdc: 120mA			
MAX adjustment: 3mm				
Retention force: 330Kg-f / 3250N				
Temperature: -15 to +40°C				
Tested cycl	es: 300.000			
Dimensions	s: 67(V) x 20,5(H) x 28(P)mm			

- Replacement.
- Automatic sliding automatic operation.
- Symmetrical.
- Reversible (DIN Right or DIN Left).
- Latch adjustable max.

Its small dimensions (67mm in height) makes it especially suitable for both the replacement market and new construction.

Includes the new Ab automatic sliding functioning which allows the automatic function to slide with the MAX bolt adjustment.



#### REFERENCES

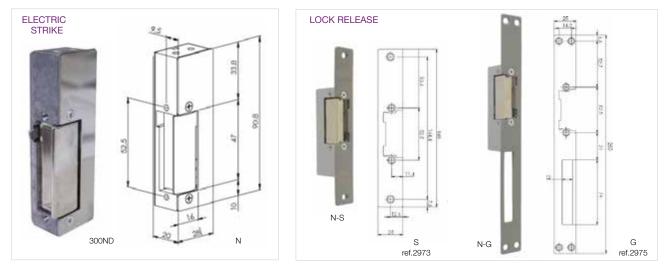
12 Vac			With sh	ort shield (S-type)
1777	ELECTRIC STRIKE	540N MAX	12 Vac	
1799	ELECTRIC STRIKE	540ND MAX	30711	LOCK RELEASE 540N-S MAX
1778	ELECTRIC STRIKE	540A MAX	28341	LOCK RELEASE 540ND-S MAX
1779	ELECTRIC STRIKE	540AD MAX	30691	LOCK RELEASE 540A-S MAX
1812	ELECTRIC STRIKE		28201	LOCK RELEASE 540AD-S MAX
1811	ELECTRIC STRIKE		1821 64551	LOCK RELEASE .540Ab-S MAX
1780			28151	LOCK RELEASE 540ADD-5 MAX
	ELECTRIC STRIKE		12 Vdc	LOOK HELLASE 340Aa-3 MAX
1781	ELECTRIC STRIKE	540AaD MAX	30701	LOCK RELEASE 540N-412-S MAX
12 Vdc			30591	LOCK RELEASE 540ND-412-S MAX
1782	ELECTRIC STRIKE		30571	LOCK RELEASE 540A-412-S MAX
6461	ELECTRIC STRIKE		30581	LOCK RELEASE 540AD-412-S MAX
1783	ELECTRIC STRIKE	540A-412 MAX	1820	LOCK RELEASE 540Ab-412-S MAX
1810	ELECTRIC STRIKE	540Ab-412 MAX	64651	LOCK RELEASE 540AbD-412-S MAX
6465	ELECTRIC STRIKE	540AbD-412 MAX	28171	LOCK RELEASE 540Aa-412-S MAX
1728	ELECTRIC STRIKE	540Aa-412 MAX	64801	LOCK RELEASE 540N-512-S MAX
1727	ELECTRIC STRIKE	540AaD-412 MAX	With lor	ng shield (M-type)
1794	ELECTRIC STRIKE	540N-512 MAX	12 Vac	
24vdc			30712	LOCK RELEASE 540N-M MAX
	ELECTRIC STRIKE		12 Vdc	
6470		0.0000 12.000000	64802	LOCK RELEASE 540N-512-M MAX
6490	ELECTRIC STRIKE	540N-524 MAX		

FLUSH MOUNTED



### BASIC

#### 300 SERIES. Basic



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

- Monoblock version and MAX adjustment (+3€)
- Body 90 mm.
- With CTC, the body is 113mm.
- Non-symmetrical
- Reversible (Right DIN or Left DIN).

#### **SPECIFICATIONS**

Consumption:	N, A N-412 N-512	12Vac: 980mA 12Vdc: 180mA 12Vdc: 150mA 24Vdc: 120mA	MAX adjustment: Retention force: Temperature:	4mm 300 Kg-f/2950N -15°C a +40°C
	N-424	24Vdc: 120mA	Tested cycles: Dimensions:	300.000 90,8(V) x 20(H) x 28(P)mm

#### REFERENCES

12 Vac			
With sho	rt shield (S-type)		
2911	LOCK RELEASE 300N-S		
2909	LOCK RELEASE 300A-S		
2912	LOCK RELEASE 300ND-S		
2910	LOCK RELEASE 300AD-S		
With long shield (G-type)			
2924	LOCK RELEASE 300N-G		
2926	LOCK RELEASE 300A-G		
2927	LOCK RELEASE 300AD-G		

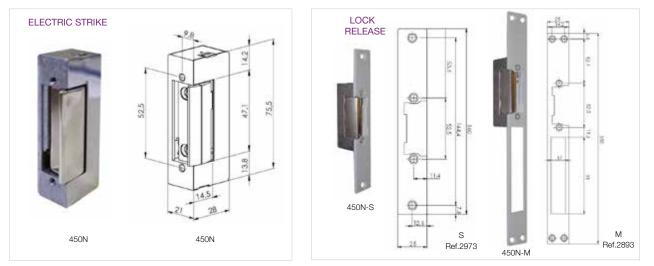
With short shield (S-type)			
12 Vdc			
2958	LOCK RELEASE 300N-412-S		
29588	LOCK RELEASE 300N-412-S MAX		
3038	LOCK RELEASE 300A-412-S		
3093	LOCK RELEASE 300AD-412-S		
30938	LOCK RELEASE 300AD-412-S MAX		
2967	LOCK RELEASE 300N-512-S		
24 Vdc			
2908	LOCK RELEASE 300A-424-S		
2968	LOCK RELEASE 300N-524-S		
стс			
2953	LOCK RELEASE 300N-S CTC		
29580	LOCK RELEASE 300N-412-S CTC		
29670	LOCK RELEASE 300N-512-S CTC		

\* Other models with adjustable latch MAX see Serie 540 page 11.

### MONOBLOCK



#### 450 SERIES. Monoblock



Flush-mounted in wooden or metal frames.

- Monoblock version.
- Medium body.
- Symmetrical
- Reversible (Right DIN or Left DIN).

#### **SPECIFICATIONS**

Consumption:	N, A, Aa	12Vac: 980mA	Temperature:	-15°C a +40°C
	N-412	12Vdc: 260mA	Retention force:	330Kg-f/3250N
	N-512	12Vdc: 200mA	Tested cycles:	300.000
			Dimensions:	75,5(V) x 21(H) x 28(P)mm

#### REFERENCES

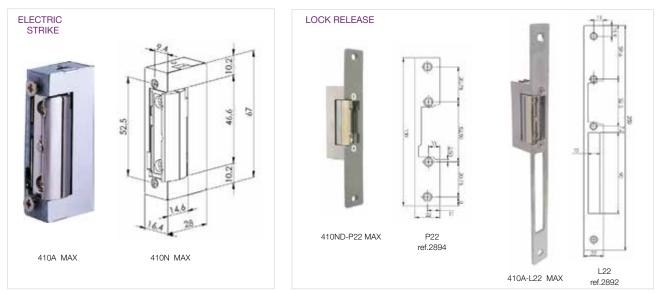
12 Vac		12 Vdc			
With short shield (S-type)		With she	With short shield (S-type)		
3071	LOCK RELEASE 450N-S	3070	LOCK RELEASE 450N-412-S		
3069	LOCK RELEASE 450A-S	3057	LOCK RELEASE 450A-412-S		
2820	LOCK RELEASE 450AD-S	3058	LOCK RELEASE 450AD-412-S		
With long	shield (M-type)				
2836	LOCK RELEASE 450N-M				

\* With adjustable latch MAX add 1 at the end of the reference to give equivalence to the Series 540 on page 11. Without increasing price. Except in ref.2836 that in version MAX is the ref.30712.



### **EUROPEAN PROFILE**

#### 410 SERIES. European Profile.



It is installed in aluminum profiles and PVC of small size. It includes radial latch that allows to turn the latch on its own axis without having to make side cut in the frame of the door, which is not possible in locking doors with traditional latch.

- Radial latch
- For narrow profiles.
- Symmetrical.
- Reversible (right DIN or left DIN).
- Adjustable latch bolt MAX as standard.

#### **SPECIFICATION**

Consumption: N, A 12Vac: 980mA N-412 12Vdc: 400mA N-512 12Vdc: 200mA MAX adjustment: Retention force: Temperature: Tested cycles: Dimensions:

:: 1mm e: 310Kg-f/3000N -15°C a +40°C 300.000 67(V) x 16,4(H) x 28(P)mm

#### REFERENCES

ELECTRIC STRIKE 410A MAX
ELECTRIC STRIKE 410AD MAX
ELECTRIC STRIKE 410Aa MAX

#### 12 Vdc

2915	ELECTRIC STRIKE 410N-412 MAX
1729	ELECTRIC STRIKE 410N-512 MAX

#### 12 Vac

With short shield (E.strike+shield P22)3040LOCK RELEASE 410N-P22 MAX3048LOCK RELEASE 410A-P22 MAX3068LOCK RELEASE 410AD-P22 MAX12 VdcLOCK RELEASE 410A-412-P22 MAX

#### 12 Vdc

#### With long shield (E.strike+shield L22)

2810 LOCK RELEASE 410ND-412-L22 MAX2812 LOCK RELEASE 410AD-412-L22 MAX

Electric Strike require short shield S (ref.2973) or large M (ref.2893). See more options at pages 36, 37.

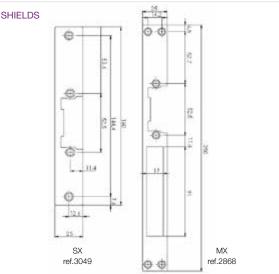
### **REINFORCED 800KG**



#### 500 SERIES. Reinforced



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.



- Retention Force 800kg.
- Stainless steel latch.
- Possibility of CTC microcontroller.
- Medium body
- Symmetrical
- Reversible (Right DIN or Left DIN).

#### SPECIFICATION

#### Consumption:

N, A	12Vac: 980mA
N-412	12Vdc: 400mA
N-424	24Vdc: 180mA
N-512	12Vdc: 200mA
N-524	24Vdc: 120mA

MAX adjustment: Retention force: Temperature: Tested cycles: Dimensions: 4mm 800 Kg-f/7800N -15°C a +40°C 500.000 75(V) x 21(H) x 28(P)mm

#### REFERENCES

12 Vac2829ELECTRIC STRIKE 500N28298ELECTRIC STRIKE 500N MAX17368ELECTRIC STRIKE 500A MAX28258ELECTRIC STRIKE 500Aa MAX1747ELECTRIC STRIKE 500N CTC

#### 12 Vdc

28278 ELECTRIC STRIKE 500N-412 MAX17448 ELECTRIC STRIKE 500N-512 MAX

#### 24 Vdc

1750 ELECTRIC STRIKE 500N-424 CTC1751 ELECTRIC STRIKE 500N-524 CTC

Electric Strike require stainless steel short shield SX (ref. 3049) or large MX (ref. 2868). See more options at pages 36, 37.



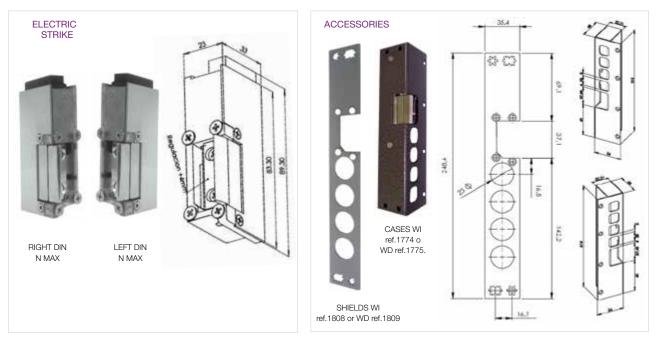


High doors



### ARMOURED

#### ARMOURED

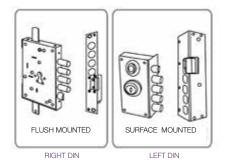


ARMOURED model electrical strike with adjustable latch, designed for armoured or security doors with multipoint locks where separation between latch and the first bolt is only 5 mm.

- For ARMOURED or SECURITY doors.
- Non-reversible. (Choose Right DIN or Left DIN).
- Design features high security locking without disturbing bolt position.

#### SPECIFICATIONS

Consumption: Dimensions: MAX adjustment: Retention force: Temperature: Tested cycles: N, A 12Vac: 1200mA 89(V) x 23(H) x 33(P)mm 2mm 350Kg-f/3450N -15°C a +40°C 300.000



#### REFERENCES

#### 12 Vac

#### LEFT DIN

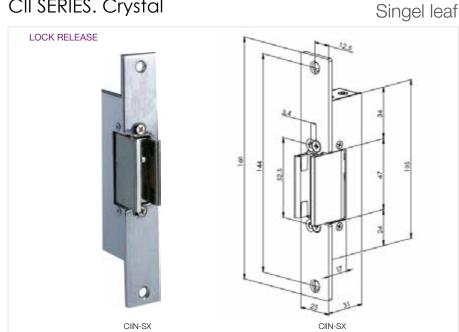
- 1804 ELECTRIC STRIKE MOD.ARMOURED N MAX
  1806 ELECTRIC STRIKE MOD.ARMOURED A MAX
  1807 ELECTRIC STRIKE MOD.ARMOURED AD MAX
  RIGHT DIN
  1795 ELECTRIC STRIKE MOD.ARMOURED N MAX
- 1793 ELECTRIC STRIKE MOD.ARMOURED N MAX 1797 ELECTRIC STRIKE MOD.ARMOURED A MAX
- 1797 ELECTRIC STRIKE MOD.ARMOURED A MAX 1798 ELECTRIC STRIKE MOD.ARMOURED AD MAX

#### ACCESSORIES

- **1808** WI-TYPE GREY SHIELD LEFT DIN
- 1809 WD-TYPE GREY SHIELD RIGHT DIN
- 1774 WI-TYPE GREY CASE LEFT DIN
- 1775 WD-TYPE GREY CASE RIGHT DIN



#### CII SERIES. Crystal





Glass door with wood or aluminum profile.

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

- No mechanical locking required.
- Glass sheet up to 12 mm.
- Reversible (DIN Right or DIN Left).
- Not symmetrical.

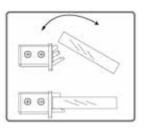
- For double-leaf doors, 2 door openers must be installed on the top of the frame, one for each leaf.
- Includes a safety device to prevent the locking of the door opener if the door is open.
- Can not be used for swinging doors.
- Requires remote opening to enter or exit. Emergency power supply is recommended.

#### **SPECIFICATIONS**

Consumption: N-512 12Vdc: 150mA Dimensions: 105(V) x 20(H) x 28(P)mm

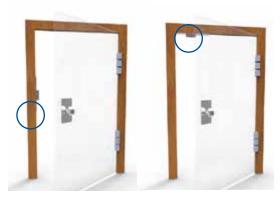
Retention force: Temperature: Tested cycles:

260Kg-f/2550N -15°C a +40°C 250.000





12 Vdc 3098 CRYSTAL LOCK RELEASE MOD.CIIN-512-SX



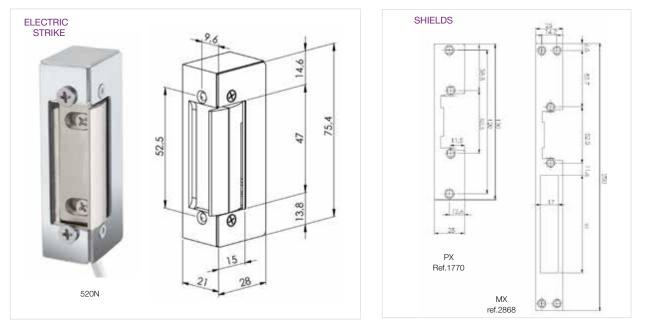
Side frame installation

Installation in upper frame



### **FIREPROOF**

#### 520 SERIES. FIREPROOF



Recommended for Fire Doors or firewalls.

- RF and 120 (up to 120 minutes)
- Holding force of 1000kg
- Reversible (DIN Right or DIN Left).
- Symmetrical.
- Monoblock version
- Certification 14846.

#### **SPECIFICATIONS**

MAX adjustment:

Retention force:

Temperature:

Tested cycles:

N, A 12Vac: 1200mA N-412 12Vdc: 400mA 4mm 1000Kg-f/9800N -15°C a +40°C 500.000

#### REFERENCES

12 Vac	
1761	ELECTRIC STRIKE 520N
1762	ELECTRIC STRIKE 520N CTC
1763	ELECTRIC STRIKE 520A

#### 12 Vdc

1764 ELECTRIC STRIKE 520N-4121765 ELECTRIC STRIKE 520N-512

#### ACCESSORIES

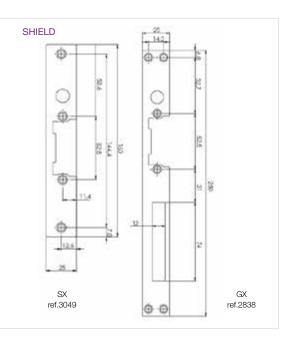
1770	PX-TYPE SHORT SHIELD STAINLESS STEEL
2868	MX-TYPE LARGE SHIELD STAINLESS STEEL

### WATERTIGHT



#### 620 SERIES. WATERTIGHT





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.

- P 65
- Non-reversible (Choose Right DIN or Left DIN).

#### SPECIFICATIONS

Consumption: Retention force: Temperature: Tested cycles: N, Aa 12Vac: 1200mA 400Kg-f/3900N -15°C a +40°C 300.000

#### REFERENCES

#### 12 Vac

LEFT DIN 1757 ELECTRIC STRIKE 620N LEFT DIN 1758 ELECTRIC STRIKE 620Aa LEFT DIN RIGHT DIN

1759 ELECTRIC STRIKE 620N RIGHT DIN

1760 ELECTRIC STRIKE 620Aa RIGHT DIN

#### ACCESORIOS

3049 SX-TYPE SHORT SHIELD STAINLESS STEEL2838 GX-TYPE LARGE SHIELD STAINLESS STEEL



### ANTIAVALANCHA

#### 770 SERIES. Anti-avalanche



Door openers for security and emergency doors. It allows unlocking against pressures up to 450 kg. In addition, it incorporates a diode that avoids the electronic interferences and lengthens the life of the coil.

N-412 12Vdc: 320mA

- ACCESSORIES
- High security installation.
- Opening with pressures up to 450kg.
- Integrated diode.
- Not reversible. (Specify right DIN or left DIN).
- Certificate for emergency doors 14846.

#### **SPECIFICATIONS**

Consumption
-------------

 N-524 24Vdc: 160mA

 Dimensions:
 134(V) x 39(H) x 23.2(P) mm

 MAX adjustment:
 2mm

 Retention force:
 750Kg-f/7350N

 Temperature:
 -15°C a +40°C

 Tested Cycles:
 500.000

#### REFERENCES

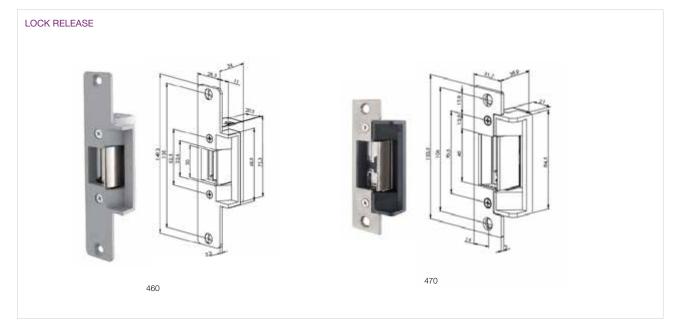
RIGHT DIN
12 Vdc
7778 E. ESTRIKE ANTIAVALANCHA N-412 MAX DCH.
7780 E. ESTRIKE ANTIAVALAN. N-412 CTC MAX D
7782 E. ESTRIKE ANTIAVALANCHA N-512 MAX DCH.
7784 E. ESTRIKE ANTIAVALAN. N-512 CTC MAX D
24 Vdc
7786 E. ESTRIKE ANTIAVALANCHA N-524 MAX DCH.
7788 E. ESTRIKE ANTIAVALAN.N-524 CTC MAX D
ACCESSORIES
7790 SX770-TYPE RIGHT
7792 GX770-TYPE RIGHT

The electric strike require a short shield SX770 or GX77 type. See Accessories.





#### 460-470 SERIES



For American and British locks, they stand out by the depth and length of their latch.

- Reversible (right DIN or left DIN)
- Symmetrical.

- Series 460. Suitable for combination with locks ANSI type for tubular type locks.
- Series 470. Small size ANSI type.

It has a lateral supplement that makes difficult its manipulation from the outside.

#### **SPECIFICATIONS**

Consumption: N 12Vac: 750mA Dimensions: 460: 75,3(V) x 39,3(H) x 34(P)mm 470: 84,3(V) x 45,7(H) x 39(P)mm Retention force: Temperature: Tested cycles: 350kg-f/3450N -15°C a 40°C 300.000

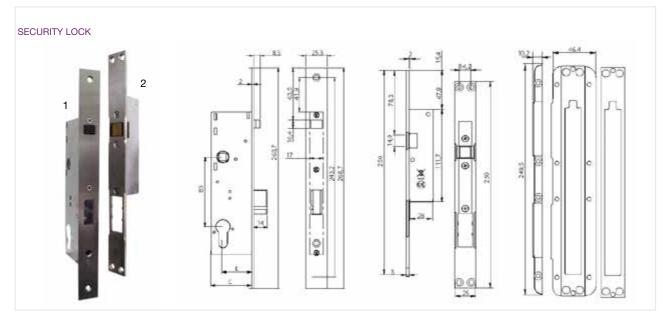
#### REFERENCES

2956LOCK RELEASE 460N BISEL3027LOCK RELEASE 470N



### SECURITY

#### 850 SERIES. Security lock



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

- The securitylock 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\*.
- Automatic operation passes a lock when the door is closed without a key.

#### **SPECIFICATIONS**

Consumption:

A 12Vac: 1200mA 12Vdc: 1500mA

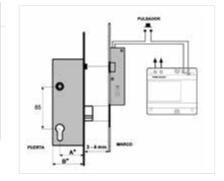
Dimensions: 268,7(V) x 25,3(H) x B\*(P)mm Temperature:  $-10^{\circ}C a + 50^{\circ}C$ 

#### TYPES AND DIMENSIONS

TYPES	<b>A</b> *	<b>B</b> *	
850/25	25	39	
850/30	30	44	
850/35	35	49	
850/40	40	54	
850/50	50	64	
850/60	60	74	

A: Distance in mm between the center of the

cylinder and the front.



REFERENCE

#### 12 Vac/12Vdc

3102	SECURITY LOCK 850/25A
3104	SECURITY LOCK 850/30A
3103	SECURITY LOCK 850/35A
3105	SECURITY LOCK 850/40A
3101	SECURITY LOCK 850/50A
3217	SECURITY LOCK 850/60A

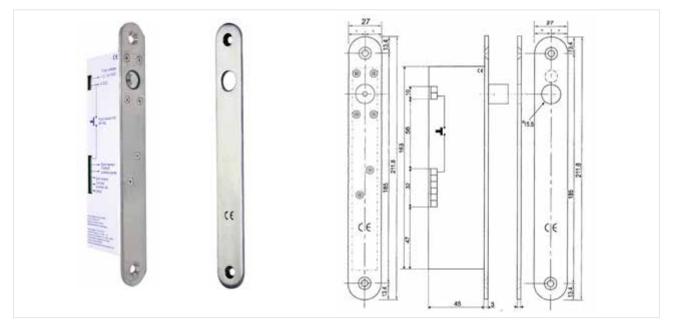
#### 12 Vac/12Vdc

**2869** SECURITY ELECTRIC STRIKE 850A Included in all automatic locks. For replenishment.

### **ELECTRIC BOLTS**



#### 700 SERIES



Inverted function electric bolt ideal for security installations, banks and access control. Installing this type of electric bolt is very simple thanks to its slim 22mm shield, making it ideal for all kinds of doors, with identical shield and faceplate dimensions to make it reversible. Admits both 12Vdc and 24Vdc power supply. With timing and monitoring functions.

While the door is closed it receives current and the bolt remains shut; when current is interrupted the bolt is hidden. When we close it again, the magnet detects the closed position and triggers the piston sensor, activating the bolt and locking the door again.

Requires stabilised power supply, such as ref. 4813 (12Vdc 2A).

- For security installations (Banks, Access Controls, etc.)
- Inverted operation.
- It has timers and monitoring.
- Mechanical or electrical opening.

#### **SPECIFICATIONS**

Initial consumption: 12Vdc: 1A 24Vdc: 500mA Usage consumption: 12Vdc: 250mA 24Vdc: 140mA

Dimensions: 212(V) x 22(H) x 45(P) mm

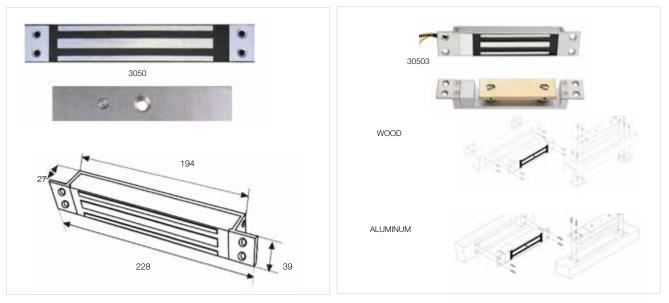
#### REFERENCES

12 Vdc/24 Vdc 1786 ELECTRIC BOLT 700N-512/524 (V7)



### ELECTROMAGNETIC

#### ELECTROMAGNETIC SERIES



- Closes a door without a traditional lock. It is also used to keep doors open for safety reasons.
- Inverted operation. The electromagnetic door opener releases the door when it is not powered.
- It consists of an electromagnet, which is installed in the frame of the door or access, and a metal plate that is installed on the moving door leaf.
- When the electromagnet is supplied, a magnet pulling force is secured to the plate. When the magnet is not powered, it releases the door.
- Suitable for installations where we want to hide the electromagnet and for sliding doors.
- Includes mounting kit and installation booklets.
- It can feed both 12 Vdc and 24 Vdc.
- Includes microcontroller: C, No, Nc.
- Ref. 30503 is recommended for VAIVÉN doors.

See installation instructions enclosed with the equipment.

ELECTROMAGNETIC FLUSH MOUNTED 300 Kg CTC LED Holding force 3000N. For two-way doors or sliding door

ELECTROMAG. SWING DOORS M54 (750KG) CTC LED

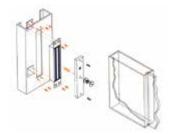
#### SPECIFICATION

REFERENCES

3050

30503

Consumption: 3050: 12Vdc: 550mA 24Vdc: 275mA Retention force: 300 Kg-f Signaling: Led+CTC Dimensions: 228(V) x 39(H) x 27(P)mm



Consumption 30503: 12Vdc: 1.200mA 24Vdc: 600mA Retention force: 750 Kg-f Dimensions: 165(V) x 31(H) x 21,5(P)mm Signaling: Led + CTC.



Sliding door

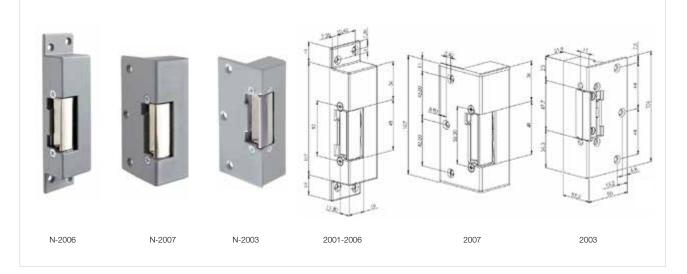


# SURFACE MOUNTED



### UNIVERSAL

#### 2001-2006 SERIES. Visible attachment 2007-2003 SERIES. Hidden attachment

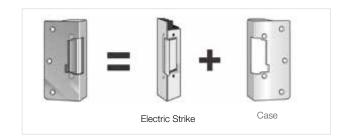


- For locks without latch/bolt.
- Door lock references includes BASIC series 300 mechanism.
- Reversible (Right DIN or Left DIN).
- Non-symmetrical.

- Visible attachment on frame. 2001(chrome)-2006(gray). 145 mm one-piece case.
- Concealed attachment on frame 2007(gray). 107 mm one-piece cover.
  2003(aluminio). 106 mm two piece cover.

#### SPECIFICATIONS

Consumption: Retention force: Temperature: Tested Cycles: N, A 12Vac: 980mA 300Kg-f/2950N -15°C a +40°C 300.000



#### REFERENCES

12 Vac	
2923	LOCK RELEASE N-2001 CHROME
2917	LOCK RELEASE A-2001 CHROME
2940	LOCK RELEASE N-2003 AL. ANOD.
2942	LOCK RELEASE A-2003 AL. ANOD.

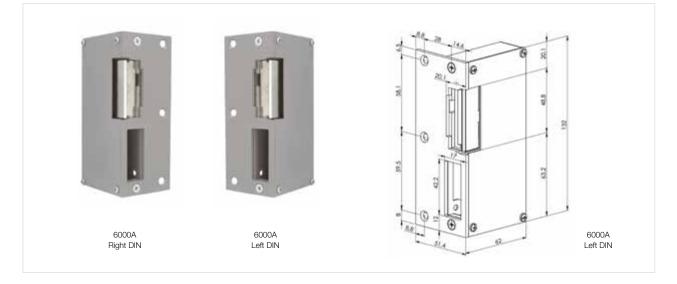
ACCESORIES 2979 2001 CASE CHROME 2987 2006 GRAY CASE 2964 2007 GRAY CASE

Choose the most appropirate lock release for your installation by choosing the Universal or Standard Electric Strike (page 10-11). Add then the corresponding case. (See Accessories).

### WITH DEADBOLT RECESS

### FERMAX

#### 6000 SERIES



- 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	

Dimensions: Latch Depth: Retention force: Tested cycles: 132(V) x 51,4(H) x 62(P) mm 10mm 300Kg-f/2950N 250.000

#### REFERENCES

#### 12 Vac

- 3004 LOCK RELEASE 6000N GRAY
- 3005 LOCK RELEASE 6000A GRAY
- 3006 LOCK RELEASE 6000AD GRAY
- 3021 ELECTRIC STRIKE 660N

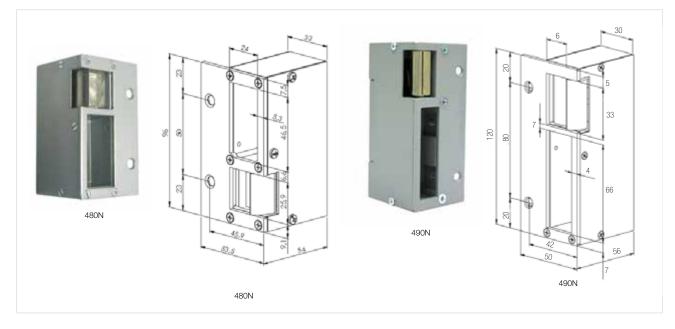




### WITH DEADBOLT RECESS

480 SERIES. Horizontal

490 SERIES. Vertical



- For horizontal bolt locks with latch width up to 20 mm.
- Body 480 Series of 96 mm and 490 Series of 122 mm.
- Reversible (Right DIN or Left DIN).

- Symmetrical.
- Attachment concealed on frame.

#### **SPECIFICATIONS**

Dimensions:

Latch Depth:

Consumption: N, A12Vac: 980mA 480: 96(V) x 54(H) x 54(P) mm 490: 122(V) x 54 (H) x 54(P) mm

> 480: 7,7 mm 490: 5,6 mm

Retention force: Temperature: Tested cycles:

200Kg-f/1960N -15°C a +40°C 200.000

#### **REFERENCES**

12 Vac				
480 SERIES				
3030	LOCK RELEASE 480N			
3031	LOCK RELEASE 480A			

#### 12 Vac 490 SERIES 3034 LOCK RELEASE 490N 3035 LOCK RELEASE 490A

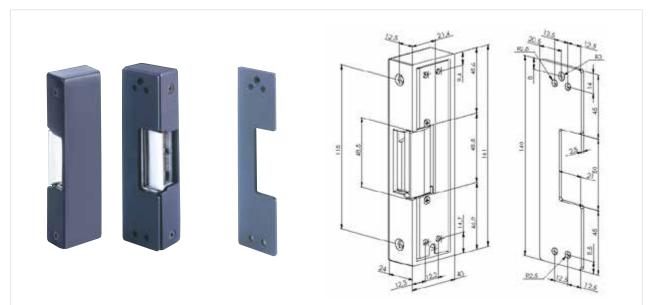
#### Compatible with locks:







#### P SERIES



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.

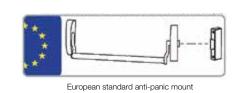
- For doors with surface panic bar.
- Reversible (Right DIN or Left DIN).
- Symmetrical.
- Concave latch adaptable to panic bar lock deadbolt.

#### **SPECIFICATIONS**

Consumption:					
Ν	12Vac:				
1200mA					
N-412	12Vdc:	180mA			
N-512	12Vdc:	150mA			
N-424	24Vdc.	180mA			
N-524	24Vdc.	120mA			

#### Dimensions: Latch Depth: Retention force: Temperature: Tested cycles:

141(V) x 24(H) x 40(P) mm 10,4 mm 300Kg-f/2950N -15°C a +40°C 300.000



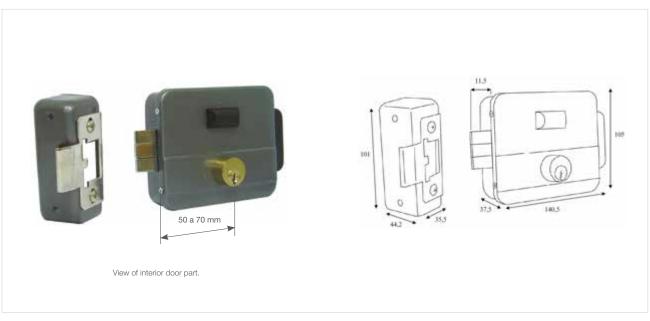
#### REFERENCES

12 Vac			
3064	LOCK RELEASE PN (antipanic)		1
1767	LOCK RELEASE PAa (antipanic)		
12 Vdc			
3065	LOCK RELEASE PN-412 (antipanic)		
3066	LOCK RELEASE PN-512 (antipanic)		
3067	LOCK RELEASE PN-424 (antipanic)		
24 Vdc		1414	
1768	LOCK RELEASE PN-524 (antipanic)	anic) Surface bars anti-panic.	
стс			
1769	LOCK RELEASE PN-512 CTC (antipanic)		



### **ELECTRIC RIM LOCK**

#### 961-962 SERIES. Replacement

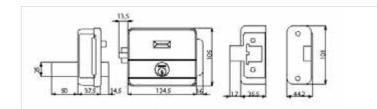


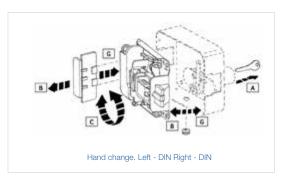
Its size and standard attachment points allow insertion into the majority of electric locks. The cylinder is adjustable from 50 to 70 mm.

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

#### SPECIFICTATIONS

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





#### REFERENCES

#### 12 Vac /12Vdc

- 2878 ELECTRIC RIM LOCK 961-DOUBLE KEY
- 2879 ELECTRIC RIM LOCK 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)



### WITH CHAIN



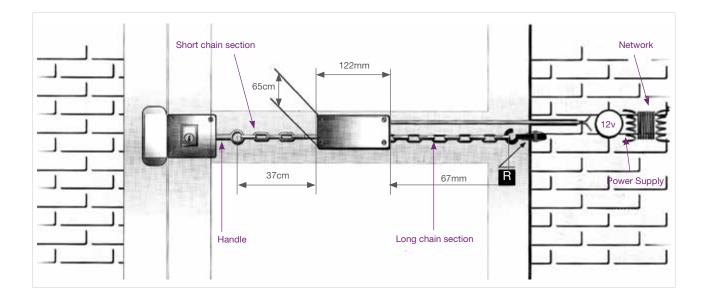
#### 8000 SERIES



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

#### SPECIFICATIONS

Consumption: 12Vac: 980mA

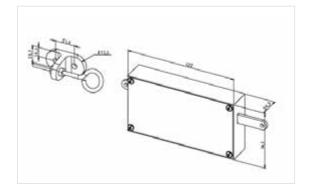


#### **ASSEMBLY INSTRUCTIONS**

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.

#### REFERENCES

#### 12 Vac 2984 LOCK RELEASE 8000N WITH CHAIN



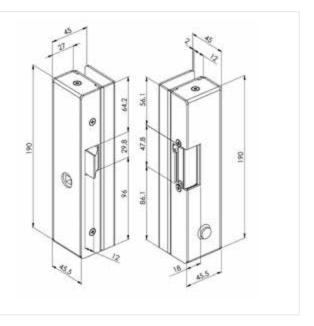


### CRYSTAL

#### CRYSTAL C SERIES. Double leaf



- 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.
- Requires remote opening to enter: depending on installation emergency power is recommended.

#### **SPECIFICATIONS**

Consumption: Dimensions: Latch Depth: Retention force: Temperature: Tested cycles: N, A 12Vac: 980mA 190(V) x 45,5(H) x 27(P) mm 10mm 300Kg-f/2950N - 15 a +40°C 300.000



#### REFERENCES

- 2997 LOCK RELEASE CRYSTAL CND CHROME
- 2998 LOCK RELEASE CRYSTAL CAD CHROME

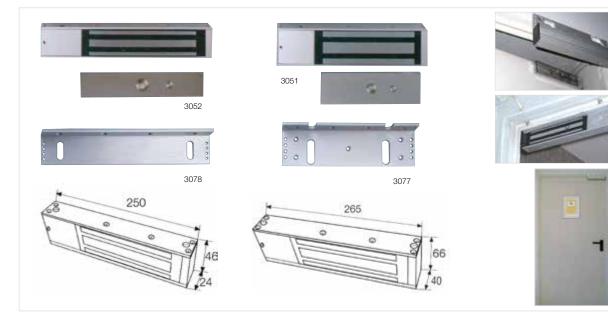
Glass doors with double leaf and one fixed.



### ELECTROMAGNETIC



#### ELECTROMAGNETIC SERIES



- 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.



Consumption: 12Vdc: 480mA 24Vdc: 240mA

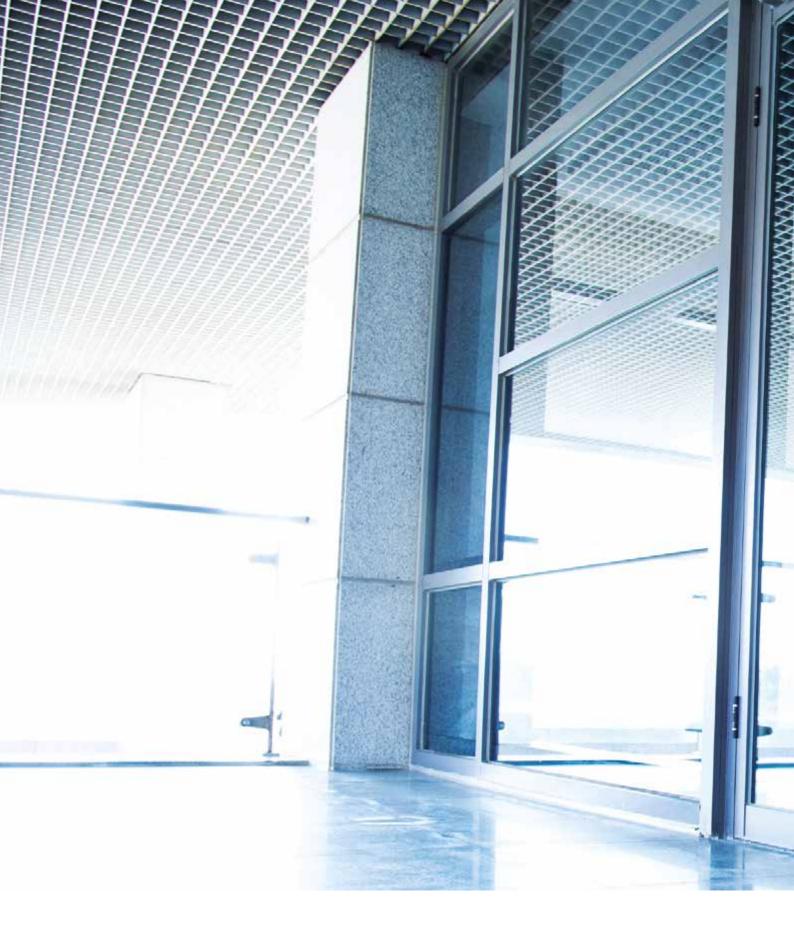
**ACCESSORIES** 

#### REFERENCES

- 3052 ELECTROMAGNETIC LOCK SURFACE 300 Kg Holding force: 300N Bracket optional Ref.3078
- 3078 BRACKET L-3 FOR REF. 3052
- **3051** ELECTROMAGNETIC LOCK SURFACE 500 Kg 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









SHIELDS. CASES. POWER SUPPLIES. RETAINERS. CONTACTS. CABLE CONDUITS. RELAYS. CLOSER.



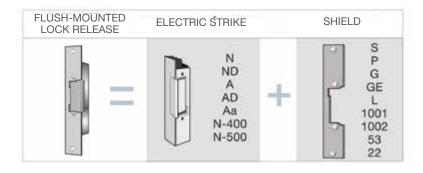


### SHIELDS

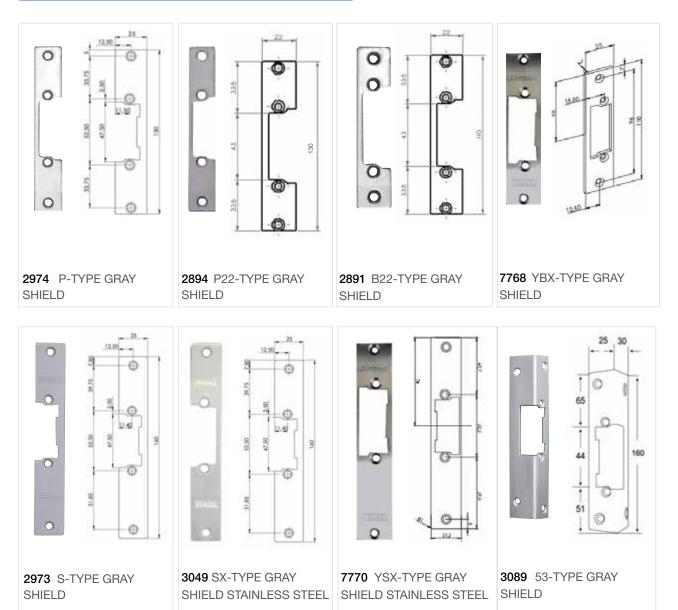
## SHIELDS

#### Flush-mounted lock release

Metallic trim coupled with an Electric strike 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).



#### SHORT SHIELD: For access door

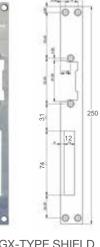


### SHIELDS



#### LONG SHIELD: For latch-deadbolt lock doors



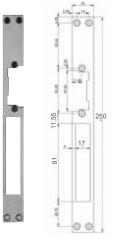


2838 GX-TYPE SHIELD STAINLESS STEEL

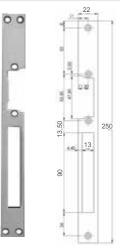


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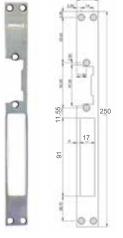
128 3088 L-TYPE GRAY



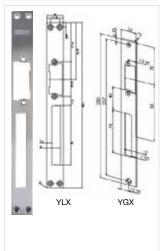
2893 M-TYPE GRAY SHIELD



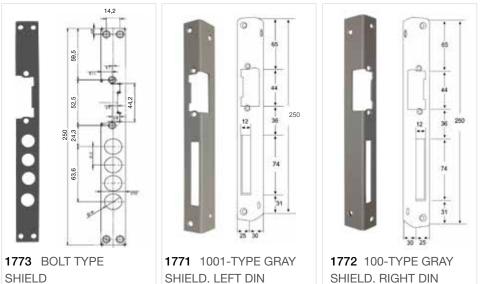
2892 L22-TYPE GRAY SHIELD



2868 MX-TYPE SHIELD STAINLESS STEEL



7769 YLX-TYPE SHIELD STAINLESS STEEL







## Cases

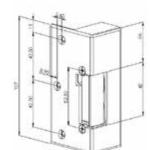
#### SURFACE LOCK RELEASE

Metallic trim along with an Electric strike makes up a surface-mounted lock release.

SURFACE LOCK RELEASE	ELECTRIC STRIKE	CASE
	N ND A AD Aa N-400 N-500	F-2001 F-2005 F-2003

#### Hidden frame attachment





To combine with Universal 990 or Standard strike 540 page.10-11.

One-piece models. 2964 2007-TYPE GRAY CASE

#### Visible attachment on frame



To combine with Universal strike 990 or Standard strike 540 page.10-11.

One-piece models 2979 2001-TYPE CHROME CASE 2987 2006-TYPE GRAY CASE



1775 WD-TYPE ARMOURED GRAY CASE RIGHT DIN



## Power supplies



## 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.

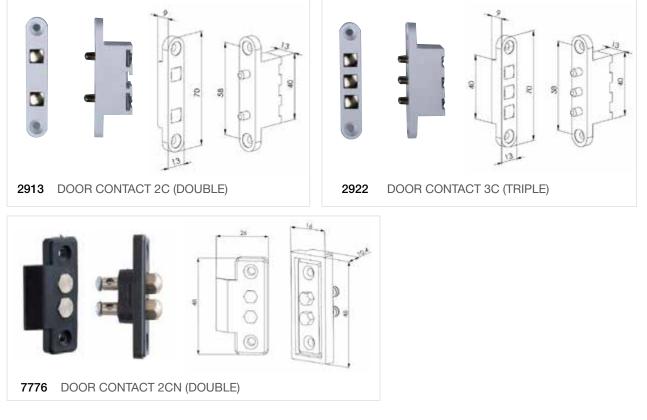




## Contacts

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.



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..)





## Cable conduits

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



surface mounting using the outer caps. Application when it is not feasible to embed contacts in the frame or on the door. Diameter: Interior: 8 mm. Exterior: 10,50 mm.

3083 FLEXIBLE CONDUIT X1



5287 EMBED EXIT BUTTON S1



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: **X2**: 260 (V)mm. **X2B**: 510 (V)mm. Diameter: Inside: 9 mm. Exterior: 11,50 mm.

3084 RIGID VANDAL CONDUIT X21776 RIGID VANDAL CONDUIT X2B



5288 SURFACE EXIT BUTTON S5

## 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

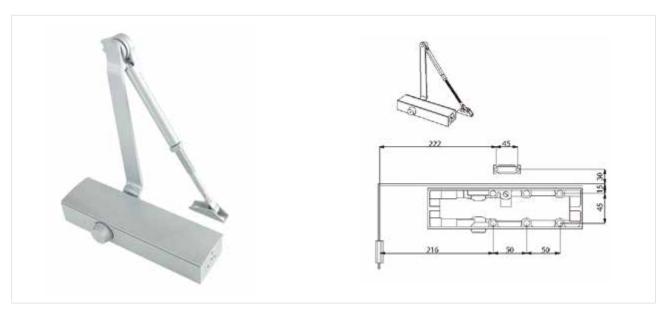


Allows to time lock release activation for a programmable period from 0 to 6 minutes or 0 to 60 seconds.

29001 TIMER



## Closer



The door closure is very simple to install and is the ideal solution for interior doors of different styles and designs. Its slim and compact design ensures easy and trouble-free installation. Fully adjustable forces and closing speeds.



Closes doors in upper frame.

#### SPECIFICATIONS

Closing force:	EN 2-5
Width of the door:	850-1110 mm
Weight of the door:	25-85 Kg
Tested cycles:	500.000
Fire certification:	EN-1634

### REFERENCES

7794 CLOSER DC3H GRAY

42



## ACCESS CONTROL

RADIOFREQUENCY. KEYPAD. PROXIMITY. FINGERPRINT



### FERMAX

### RADIOFREQUENCY

## Radiofrequency

#### 868 MHZ SYSTEM





Stand-alone receptor powered by 12/24Vca/dc which allows for the management of up to 500 command codes RF 868Mhz. A channel (emitter button) can activate either of the two relays, or both simultaneously, in ref.5250. This allows the user to open pedestrian and vehicle gates by remote, from a distance of up to 100m. It can be programmed manually or by radio.

The 5291 receptor includes a monostable relay which is normally open, and the 5250 receptor includes two relays as standard, one configured to monostable while the other can be configured to monostable=pulse or bistable, through the use of a jumper (pulse/bistable) within the receptor itself.

Monostable=Pulse each time the emitter button is pressed the relay is activated for 2 seconds.

Bistable. The relay is activated or deactivated by each press of the emitter button.

#### REFERENCES

Receptors with capacity of up to 500 users. Power supply 12-24 Vca/ dc.

#### 5250 RECEPTOR RF BASIC-2B 12/24V

2 relay outputs, (pulse\*, pulse\*/bistable). Each press of the emitter button can activate one individual relay or both simultaneously.

5291 RECEPTOR RF BASIC-MINI 12/24V

To be installed inside the audio or video door entry panel.

#### 5259 EMISOR RF KEYSINGLE MINI

The digital emitters have a code exclusive to the user. Sends a signal for access to the garage and remote control of devices: lights, blinds, alarms...Maximum distance: 100m.

#### 5249 KIT TIENDAS GARAJE RF

Includes receptor ref. 5250, 3 remotes ref. 5259 Keysingle MINI and a power supply ref. 4802 12Vca

4802 POWER SUPPLY 240VAC 12VAC/1A

4813 POWER SUPPLY 100-240VAC OUTPUT 12VDC/2A

67521 LOCK RELEASE 990A-P22 12VAC/DC

(Lock release built in. automatic operation. with short shield p22)

#### SPECIFICATIONS

	5250	5291
Box Dimensions (mm)	82x190x40	60x44x15
IP	54 (IP65 with stuffing box)	-
Power supply	12/24Vac/dc	12/24Vac/dc
Consumption (mA)	60/90	60/90
Frequency	868Mhz	868Mhz
Capacity	500 codes	
Relay outputs	2/1A	1/3A
Distance	100mts	
Security	High Security Rolling Code 19 trillion combinationss	
Temperature -20°C a 85°C		-20°C a 55°C

Dimensions: horizontal x vertical x depth mm



### **KEYPAD**

## Cityline Memokey



- 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 (IP): Shock resistance (IK): Power supply (V): Consumption (mA) w/lock: Operating temperature:

54 07 12 Vac/dc 40/110 -15° a 55° C

#### REFERENCES

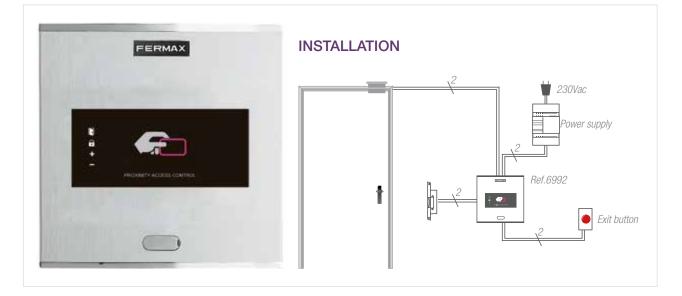
6991 MEMOKEY CITYLINE

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



PROXIMITY

## Cityline Proximity



- 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 Flush box Surface box

(IP): 115x114x45 130x128x33

Environmental protection 54 07 12 Vac/dc Shock resistance (IK): Power supply (V): 90-15° a Consumption (mA) w/lock: 55° C Operating temperature:

#### REFERENCES

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

130x128

2306 PROGRAMMING KEYPAD





PROXIMITY CARD WITHOUT MAGNETIC 23361 STRIP EM

4515 PROXIMITY KEYRING EM

### FINGERPRINT

## Cityline Fingerprint



- Power supply 12 Vac/Vdc.
- Fingerprint reader with integrated proximity.
- Activation of door opener by relay. Programmable from 01 to 99 seconds.
- Acoustic and visual information of actions.
- Reader with 2 signaling LEDs and 7-segment display 4 digits (aid in programming and status).
- Manual programming via included infra-red remote control or PC software (high-low fingerprints). Adding ref.24661.
- Special functions: free access fingerprint (trades) and unlock fingerprint (door opener always on).
- Door sensor control and exit button.
- Auxiliary relay for other functions: door and forced door alarm or intimidation alarm or intrusion alarm (by incorrect track).
- It allows Security Mode: in this case the double security would be Footprint + Card, for the same user.

#### **SPECIFICATIONS**

Dimensions:	
Reader	130x128
Flush box	115x114x45
Surface box	130x128x33

Environmental protection (IP): Shock resistance (IK): Power supply (V): Consumption (mA) w/lock: Operating temperature:

43 07 12 Vac/dc 118/173 -10° a 55° C

#### REFERENCES

6935 CITYLINE FINGERPRINT READER Outdoor/Indoor. Integrated in aluminium panel. Flush box included (ref.8948). Surface box optional (ref.7061). 23361 PROXIMITY CARD WITHOUT MAGNETIC STRIP EM









## Composition

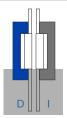
Each series consists of different references or models depending on the electrical or operating features required. The terminology used in each trade reference follows the same composition.

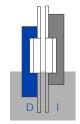
REF.1811 ELECTRIC STRIKE 540AbD	REF.30591 LOCK RELEASE 540ND-412-S MAX
540AbDMAXSeriesOperationAdjustable latch bolt	540ND-412SMAXSeriesOperationShield or CaseAdjustable latch bolt
ELECTRIC STRIKE SERIE 540	LOCK RELEASE SERIE 540
MAX (Adjustable latch bolt) Ab (Automatic Operation) D (Unlocking lever)	D (Unlocking lever) MAX (Adjustable latch bolt) S (Shield)

	EXAMPLE	FEATURES
SERIES	450, 410, 480, etc.	Identifies the lock or strike size and characteristics. If no model is specified, understood as Universal Model (non-symmetrical).
OPERATION	N, ND, A, AD, Ab, AbD, Aa, AaD N-400, N-500, MAX. CTC	Electric strike 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.



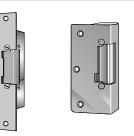
## Glossary of terms





REVERSIBLE Opening enabled both to right and left.

SYMMETRICAL Allows to change sides without changing the frame gap. NON-SYMMETRICAL When changing from left to right the lock does not stay in synch with gap.



Lock release for Access Doors Lock release without deadbolt lock



Lock release with deadbolt lock

ELECTRIC STRIKE. Part receiving power in order to open or close the door. It is the body of the door 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.

#### **OPERATING TYPE**

- N Normal Operation: 12Vac. (Fail-locked)
- A Automatic Operation: 12Vac.
- Ab Adjustable Automatic Operation: 12Vac. Allows the automatic function to slide with the MAX bolt adjusment.
- Aa Invisible Automatic Operation: 12Vac. The automatic pin is suppressed to allow an easier fit to the mechaanical lock. A very short electrical pulse is recommended.
- N-412 Normal Operation: 12Vdc. (Fail-locked)
- N-424 Normal Operation: 24Vdc. (Fail-locked)
- N-512 Inverted Operation: 12Vdc. (Fail-unlocked, Fail-safe)
- N-524 Inverted Operation: 24Vdc. (Fail-unlocked, Fail-safe)D With unlocking tab.
- MAX With adjustable latch.
- CTC With microswitch.

#### SHIELD TYPE

#### \*stainless steel shield

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.
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)

#### CASE TYPE

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





### ASSEMBLY INSTALLATION DIAGRAMS





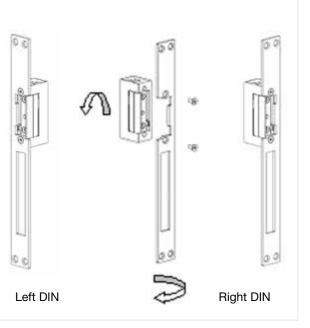
### **ASSEMBY INSTRUCTIONS**

#### Hand change

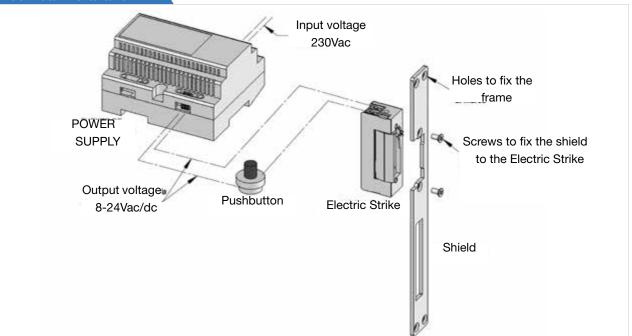
#### LEFT DIN - RIGHT DIN

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





#### 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.

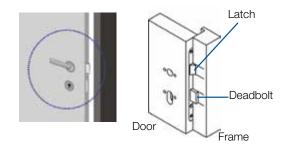
- Remove any remaining traces of material from the framework where the lock release will be introduced.
- Do not apply any kind of paint or coating to the lock release or its shield.
- Do not grease the strike.
- Do not remove the strike cover.
- Keep the lock release free from moisture.

### ASSEMBLY INSTRUCTIONS

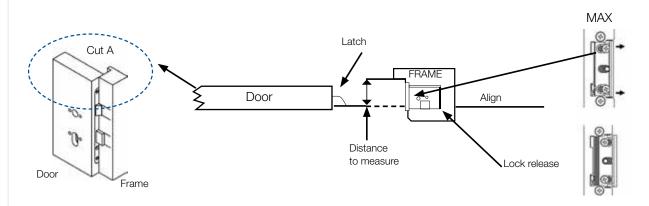
### FERMAX

#### Lock assembly

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



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 press on the lock release bolt. Measure the distance indicated with which you can define the horizontal position.



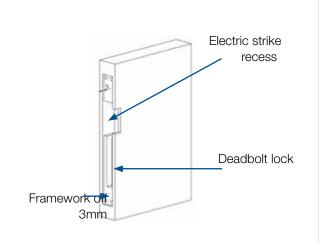
NOTE: With automatic Electric strikes A, the latch must press on the bolt strike (approx. 3mm) for it to work automatically. The MAX version adjustable latch allows an exact fit between latch and bolt up to 4mm.

#### 3\_

2

When the vertical and horizontal position of the lock release has been defined, make a hole in the door frame to fit the strike and lock.

The box housing and lock strikes 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.



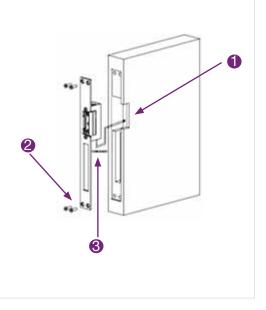
### **ASSEMBY INSTRUCTIONS**

#### 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.

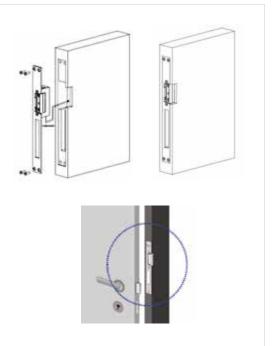
- Mark the holes for the anchor screws. Must be drilled to fit the holes in the shield.
- **3** The wiring hole must be made inside, near the lock release casing.



### 6

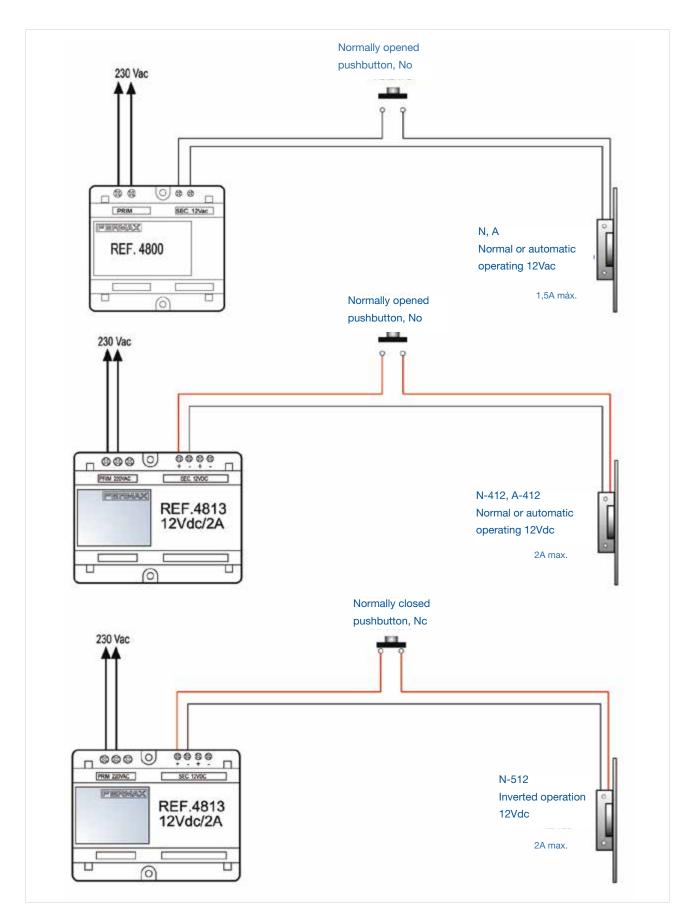
Connect the wires. Fit the lock release in the recess and tighten the holding screws.

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



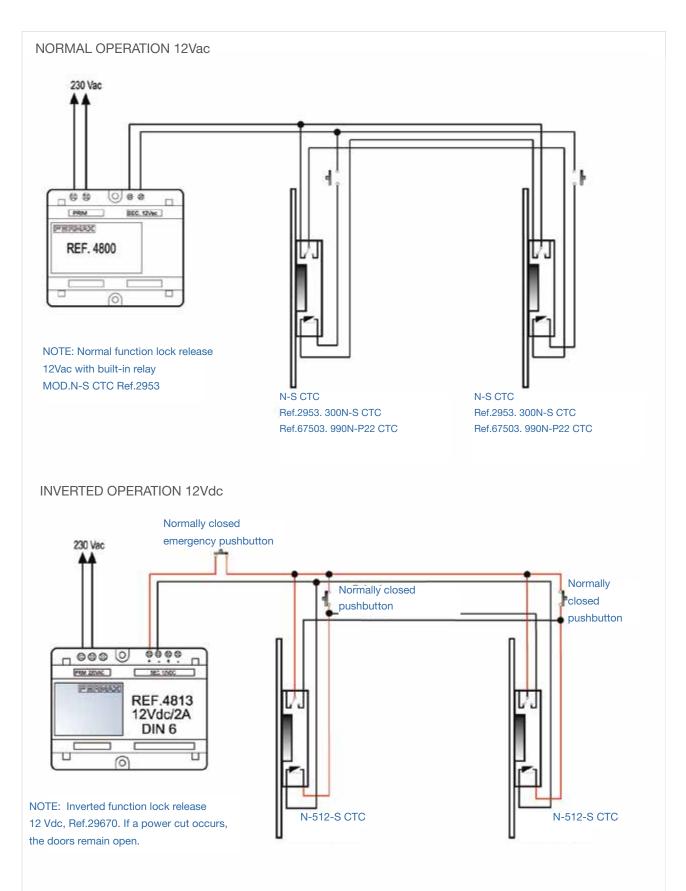


#### DOOR OPENING BY LOCK RELEASE OPERATION



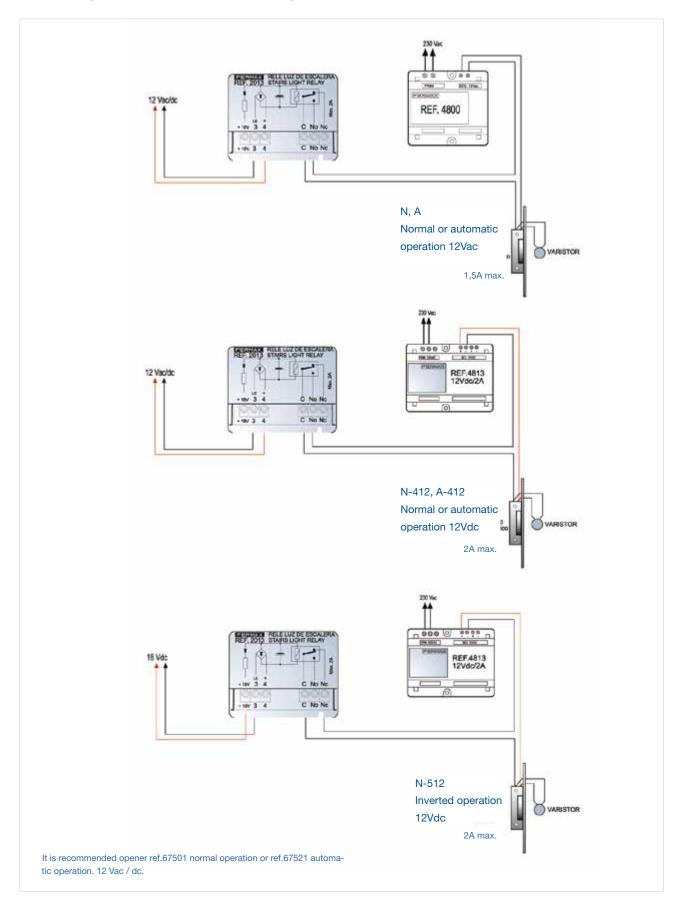


DOOR OPENING WITH AUTOMATIC BLOCKING OF ANOTHER DOOR.



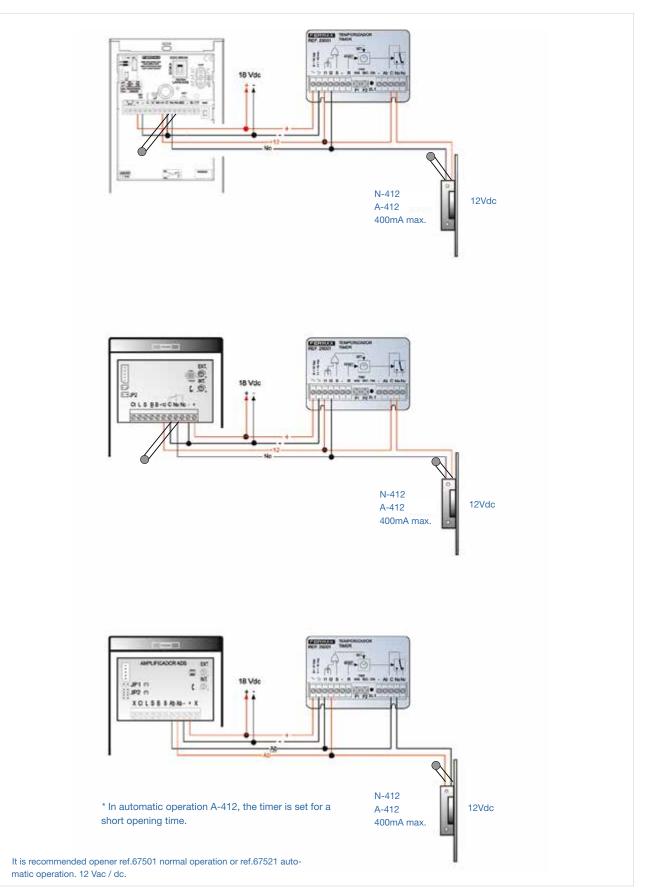
FERMAX

INSTALLATION WITH RELAY REF.2013. Acording to lock release operating type.



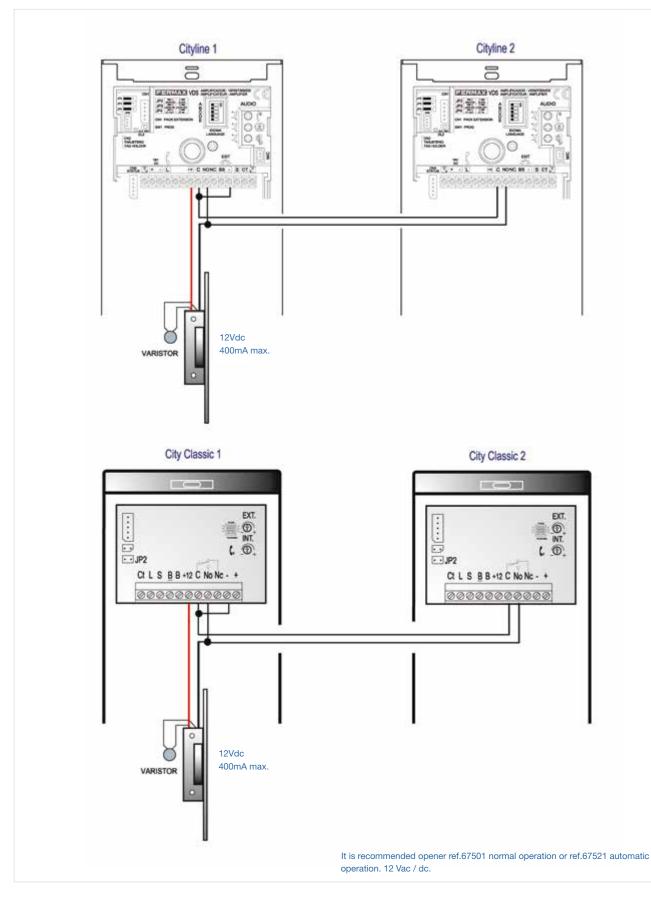


#### VDS DOOR OPENING WITH TIMER



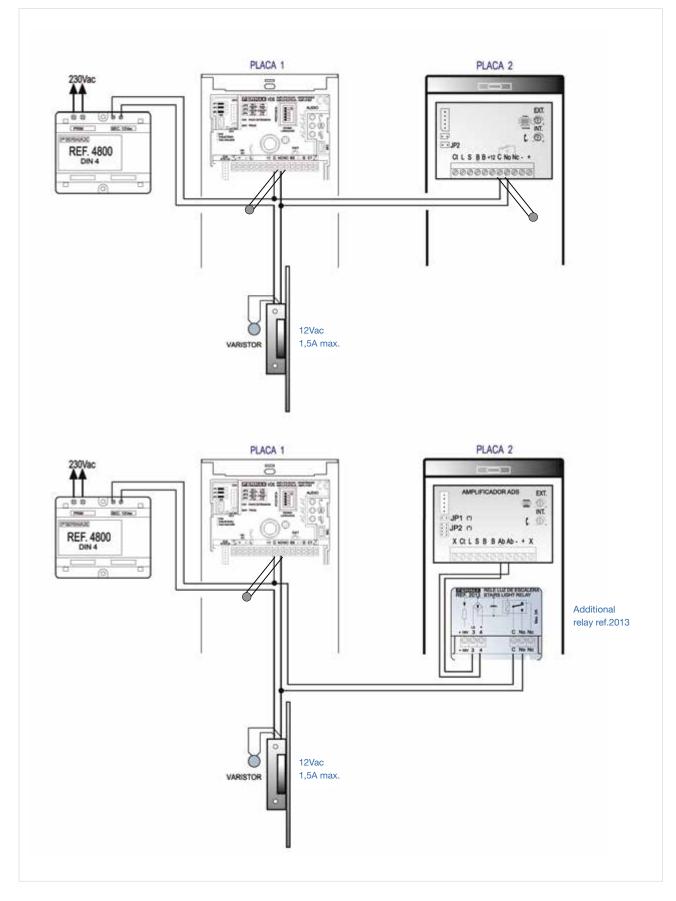
FERMAX

OPENING THE SAME DOOR (12 VDC)





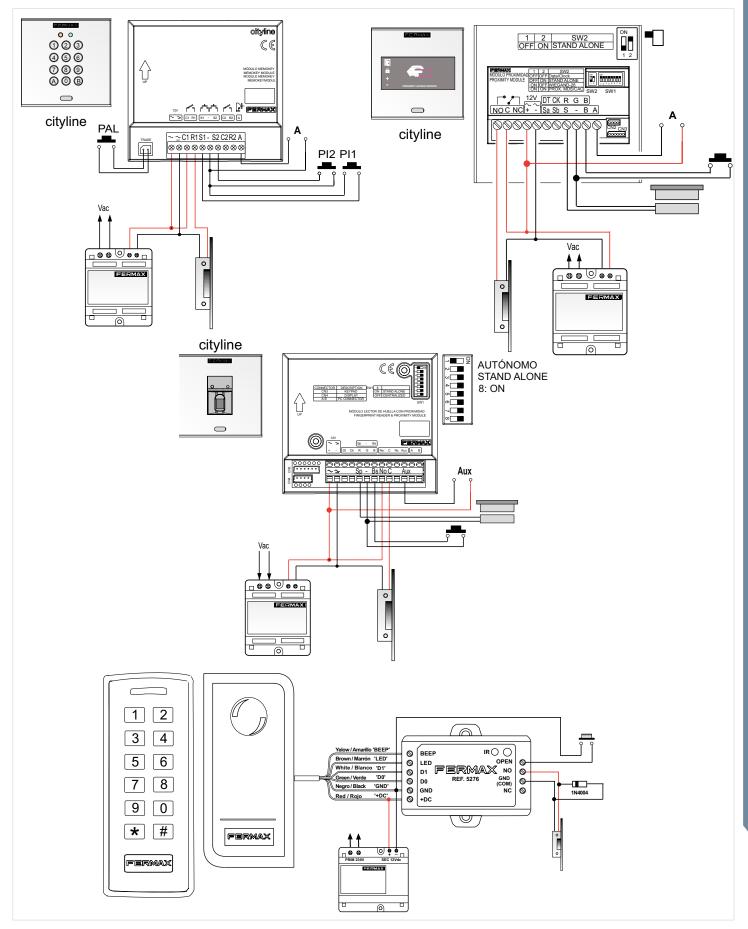
#### OPENING THE SAME DOOR (12Vac)



ASSEMBLY AND WIRING

FERMAX

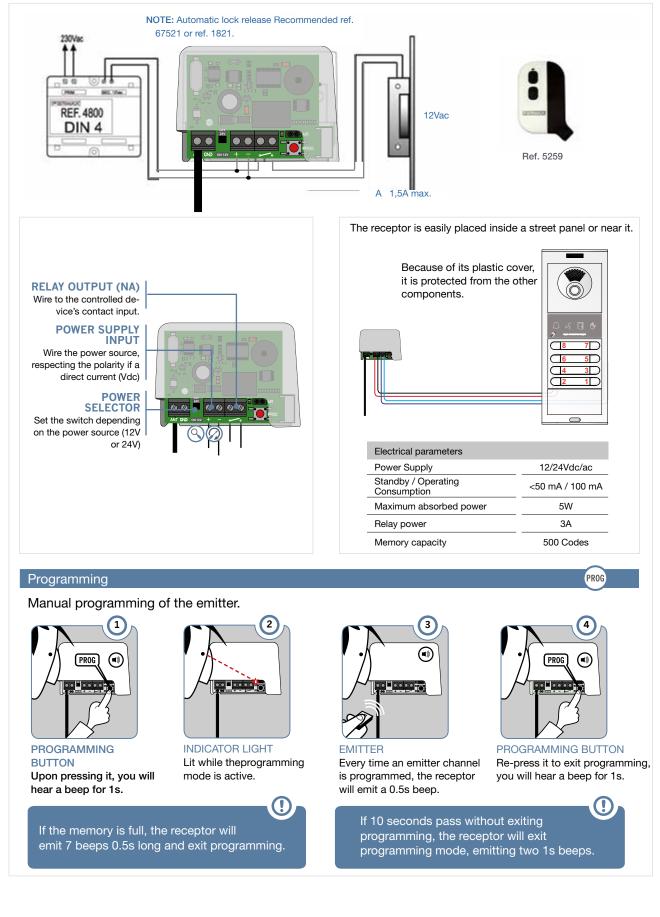
ACCESS CONTROL. KEYPAD, PROXIMITY, FINGERPRINT, MINI SYSTEM.





#### REMOTE CONTROL OPENING. RECEIVER REF. 5291 868Mhz

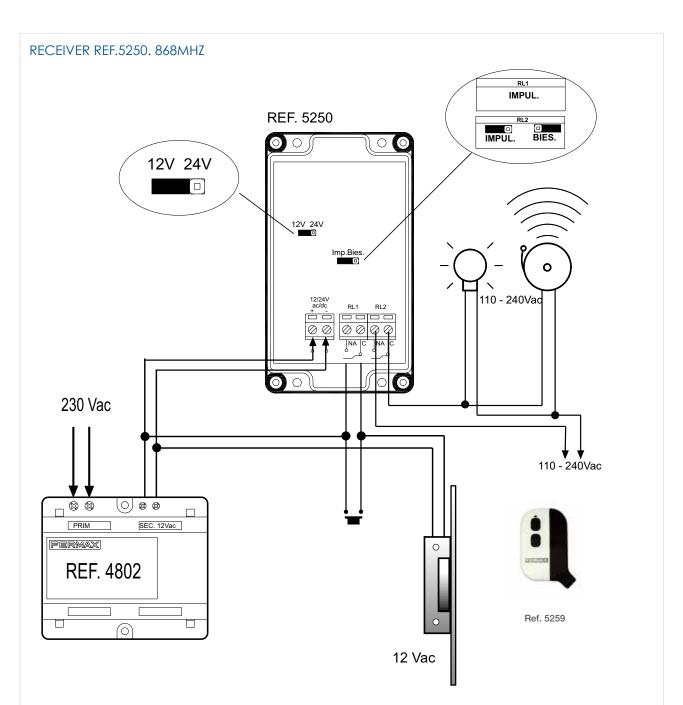
Its reduced size, its versatile power and its memory of 500 codes allow it to be applied both in industrial, community or residential installations.



64

REMOTE CONTROL OPENING. RECEIVER REF. 5250 or KIT REF. 5249.

FERMAX



#### NOTE:

Monostable / Impulsive: when the control is activated, the relay activates for a few seconds and returns to the idle position automatically. Bistable: Each press of the control activates or deactivates the relay.

The 5250 868Mhz receiver requires controls Ref. 5259 KEYSINGLE MINI BICANAL









REF.	DESCRIPTION	PAGE	REF.	DESCRIPTION	PAGE
1076	MAGNETIC CONTACT	40	1813	ELECTRIC STRIKE 990ND MAX	10
1723	ELECTRIC STRIKE 410Aa MAX	14	1814	ELECTRIC STRIKE 990ND TOP MAX	10
1724	ELECTRIC STRIKE 410AaD MAX	-	1815	ELECTRIC STRIKE 990AbD MAX	10
1727	ELECTRIC STRIKE 540AaD-412 MAX	11	1816	ELECTRIC STRIKE 990AD TOP MAX	10
1728	ELECTRIC STRIKE 540Aa-412 MAX	11	1817	LOCK RELEASE 990ND-L22 MAX	10
1729	ELECTRIC STRIKE 410N-512 MAX	14	1818	LOCK RELEASE 990ND TOP-L22 MAX	-
1744	ELECTRIC STRIKE 500N 512	-	1820	LOCK RELEASE 540Ab-412-S MAX	11
1747	ELECTRIC STRIKE 500N CTC	15	1821	LOCK RELEASE 540Ab-S MAX	11
1748	ELECTRIC STRIKE 500N-412 CTC	-	1823	LOCK RELEASE 990Ab-L22 MAX	10
1749	ELECTRIC STRIKE 500N-512 CTC	-	1824	LOCK RELEASE 990Ab-P22 MAX	10
1750	ELECTRIC STRIKE 500N-424 CTC	15	2013	RELAY 12Vac/12Vdc 2A	41
1751	ELECTRIC STRIKE 500N-524 CTC	15	2060	EMERGENCY BATTERY ADAPTOR 12Vdc	39
1752	ELECTRIC STRIKE 500ND CTC	-	2070	BATTERY 12V/2,2A ACID LEAD	39
1753	ELECTRIC STRIKE 500ND-412 CTC	-	2306	PROGRAMMING KEYPAD	46
1754	ELECTRIC STRIKE 500ND-512 CTC	-	2337	BATTERY 12V/7A ACID LEAD	39
1755	ELECTRIC STRIKE 500ND-424 CTC	-	2810	LOCK RELEASE 410ND-412-L22 MAX	14
1756	ELECTRIC STRIKE 500ND-524 CTC	-	2812	LOCK RELEASE 410AD-412-L22 MAX	14
1757	ELECTRIC STRIKE 620N LEFT DIN	19	2815	LOCK RELEASE 450Aa-S	-
1758	ELECTRIC STRIKE 620Aa LEFT DIN	19	2817	LOCK RELEASE 450Aa-412-S	-
1759	ELECTRIC STRIKE 620N RIGHT DIN	19	2820	LOCK RELEASE 450AD-S	13
1760	ELECTRIC STRIKE 620Aa RIGHT DIN	19	2829	ELECTRIC STRIKE 500N	15
1761	ELECTRIC STRIKE 520N	18	2834	LOCK RELEASE 450ND-S	-
1762	ELECTRIC STRIKE 520N CTC	18	2835	LOCK RELEASE 410N-BX MAX	-
1763	ELECTRIC STRIKE 520A	18	2836	LOCK RELEASE 450N-M	13
1764	ELECTRIC STRIKE 520N-412	18	2837	GLASS DOOR U BRACKET FOR 3052	33
1765	ELECTRIC STRIKE 520N-512	18	2838	GX-TYPE SHIELD STAINLESS STEEL	19,37
1766	LOCK RELEASE PN CTC (antipanic)	-	2868	MX-TYPE LARGE SHIELD STAINLESS STEEL	15,18,37
1767	LOCK RELEASE PAa (antipanic)	29	2869	SECURITY ELECTRIC STRIKE 850A	22
1768	LOCK RELEASE PN-524 (antipanic)	29	2878	ELECTRIC RIM LOCK 961-DOUBLE KEY	30
1769	LOCK RELEASE PN-512 CTC (antipanic)	29	2879	ELECTRIC RIM LOCK 962-DOUBLE KEY + PUSH.	30
1770	PX-TYPE SHORT SHIELD STAINLESS STEEL	18	2890	LOCK RELEASE 410A-412-P22 MAX	14
1771	1001-TYPE GRAY SHIELD. LEFT DIN	37	2891	B22-TYPE GRAY SHIELD	36
1772	100-TYPE GRAY SHIELD. RIGHT DIN	37	2892	L22-TYPE GRAY SHIELD	10,14,37
1773	BOLT TYPE SHIELD	37	2893	M-TYPE GRAY SHIELD	11,13,37
1774	WI-TYPE ARMOURED GRAY CASE LEFT DIN	16, 38	2894	P22-TYPE GRAY SHIELD	10,14,36
1775	WD-TYPE ARMOURED GRAY CASE RIGHT DIN	16, 38	2895	T-TYPE GRAY SHIELD	-
1776	RIGID VANDAL CONDUIT X2B	41	2897	FLOOR RETAINING MAGNET 24 Vdc/50 Kg	39
1777	ELECTRIC STRIKE 540N MAX	11	2899	WALL RETAINING MAGNET 2 INPUT 24 Vdc/50 Kg	39
1778	ELECTRIC STRIKE 540A MAX	11	2901	ELECTRIC STRIKE 410N MAX	-
1779	ELECTRIC STRIKE 540AD MAX	11	2902	ELECTRIC STRIKE 410A MAX	14
1780	ELECTRIC STRIKE 540Aa MAX	11	2908	LOCK RELEASE 300A-424-S	12
1781	ELECTRIC STRIKE 540AaD MAX	11	2909	LOCK RELEASE 300A-S	12
1782	ELECTRIC STRIKE 540N-412 MAX	11	2910	LOCK RELEASE 300AD-S	12
1783	ELECTRIC STRIKE 540A-412 MAX	11	2911	LOCK RELEASE 300N-S	12
1786	ELECTRIC BOLT 700N-512/524 (V7)	23	2912	LOCK RELEASE 300ND-S	12
1794	ELECTRIC STRIKE 540N-512 MAX	11	2913	DOOR CONTACT 2C (DOUBLE)	40
1795	ELECTRIC STRIKE MOD.ARMOURED N MAX	16	2914	ELECTRIC STRIKE 410AD MAX	14
1797	ELECTRIC STRIKE MOD.ARMOURED A MAX	16	2915	ELECTRIC STRIKE 410N-412 MAX	14
1798	ELECTRIC STRIKE MOD.ARMOURED AD MAX	16	2917	LOCK RELEASE A-2001 CHROME	26
1799	ELECTRIC STRIKE 540ND MAX	11	2920	ELECTRIC STRIKE 410ND MAX	-
1804	ELECTRIC STRIKE MOD.ARMOURED N MAX	16	2922	DOOR CONTACT 3C (TRIPLE)	40
1806	ELECTRIC STRIKE MOD.ARMOURED A MAX	16	2923	LOCK RELEASE N-2001 CHROME	26
1807	ELECTRIC STRIKE MOD.ARMOURED AD MAX	16	2924	LOCK RELEASE 300N-G	12
1808	WI-TYPE GREY SHIELD LEFT DIN	16	2925	LOCK RELEASE 300ND-G	-
1809	WD-TYPE GREY SHIELD RIGHT DIN	16	2926	LOCK RELEASE 300A-G	12
1810	ELECTRIC STRIKE 540Ab-412 MAX	11	2927	LOCK RELEASE 300AD-G	12
1811	ELECTRIC STRIKE 540AbD MAX	11	2940	LOCK RELEASE N-2003 AL. ANOD.	26
1812	ELECTRIC STRIKE 540Ab MAX	11	2942	LOCK RELEASE A-2003 AL. ANOD.	26
			-/ 14		20

68



REF.	DESCRIPTION	PAGE
2953	LOCK RELEASE 300N-S CTC	12
2956	LOCK RELEASE 460N BISEL	21
2958	LOCK RELEASE 300N-412-S	12
2961	lock release crystal ca chrome plated	-
2964	2007-TYPE GRAY CASE	26,38
2967	LOCK RELEASE 300N-512-S	12
2968	LOCK RELEASE 300N-524-S	12
2973	S-TYPE GRAY SHIELD	11,12,13,36
2974	P-TYPE GRAY SHIELD	36
2975	G-TYPE GRAY SHIELD	12,37
2979	2001-TYPE CHROME CASE	26,38
2981	2003-TYPE GRAY SHIELD	-
2983	2005-TYPE CHROME CASE	-
2984	LOCK RELEASE 8000N WITH CHAIN	31
2985	GE-TYPE GRAY SHIELD	37
2987	2006-TYPE GRAY CASE	26,38
2997	LOCK RELEASE CRYSTAL CND CHROME	32
2998	LOCK RELEASE CRYSTAL CAD CHROME	32
3004	LOCK RELEASE 6000N GRAY	27
3005	LOCK RELEASE 6000A GRAY	27
3006	LOCK RELEASE 6000AD GRAY	27
3021	ELECTRIC STRIKE 660N	27
3027	LOCK RELEASE 470N	21
3030	LOCK RELEASE 480N	28
3031	LOCK RELEASE 480A	28
3034	LOCK RELEASE 490N	28
3035	LOCK RELEASE 490A	28
3038	LOCK RELEASE 300A-412-S LOCK RELEASE 410N-P22 MAX	12
3040 3041	LOCK RELEASE 410N-F22 MAX	14
3048	LOCK RELEASE 410AD-122 MAX	14
3040	SX-TYPE GRAY SHIELD STAINLESS STEEL	15,19,36
3050	ELECTROMAG. FLUSH MOUNTED 300 Kg CTC LED	24
3051	ELECTROMAGNETIC LOCK SURFACE 500 Kg	33
3052	ELECTROMAGNETIC LOCK SURFACE 300 Kg	33
3057	LOCK RELEASE 450A-412-S	13
3058	LOCK RELEASE 450AD-412-S	13
3059	LOCK RELEASE 450ND-412-S	-
3064	LOCK RELEASE PN (antipanic)	29
3065	LOCK RELEASE PN-412 (antipanic)	29
3066	LOCK RELEASE PN-512 (antipanic)	29
3067	LOCK RELEASE PN-424 (antipanic)	29
3068	LOCK RELEASE 410AD-P22 MAX	14
3069	LOCK RELEASE 450A-S	13
3070	LOCK RELEASE 450N-412-S	13
3071	LOCK RELEASE 450N-S	13
3072	LOCK RELEASE 6000N-412 GRAY	27
3077	BRACKET L-2 FOR REF. 3051	33
3078	BRACKET L-3 FOR REF. 3052	33
3079		33
3082	DOOR CONTACT 4C (MONITORED DEADBOLT)	40
3083	FLEXIBLE CONDUIT X1	41
3084	RIGID VANDAL CONDUIT X2	41
3088	L-TYPE GRAY SHIELD	37
3089	53-TYPE GRAY SHIELD	36
3093	LOCK RELEASE 300AD-412-S	12
		I

REF.	DESCRIPTION	PAGE
3098	CRYSTAL LOCK RELEASE MOD.CIIN-512-SX	17
3101	SECURITY LOCK 850/50A	22
3102	SECURITY LOCK 850/25A	22
3103	SECURITY LOCK 850/35A	22
3104	SECURITY LOCK 850/30A	22
3105	SECURITY LOCK 850/40A	22
3217	SECURITY LOCK 850/60A	22
3264	ELECTRIC LOCK COMMANDER. VAC	39
3491	RELAY DIN 12Vdc (220Vac/12A)	41
4515	PROXIMITY KEYRING EM	-
4800	POWER SUPPLY 12Vac/1,5A	39
4802	POWER SUPPLY 240Vac 12VAC/1A	44
4813	POWER SUPPLY 12Vdc/2A	39
4813	POWER SUPPLY 100-240Vac EXIT 12VDC/2A	44
5249	RF GARAGE AND SHOPS KIT	44
5250	RF BASIC-2B RECEIVER	44
5259	MINI KEYSINGLE RF EMITTER	44
5287	EMBED EXIT BUTTON \$1	41
5288	SURFACE EXIT BUTTON \$5	41
5291	RECEPTOR RF BASIC-MINI 12/24V	44
6461	ELECTRIC STRIKE 540ND-412 MAX	11
6465	ELECTRIC STRIKE 540AbD-412 MAX	11
6470	ELECTRIC STRIKE 540N-424 MAX	11
6471	ELECTRIC STRIKE 540ND-424 MAX	-
6472	ELECTRIC STRIKE 540A-424 MAX	-
6473	ELECTRIC STRIKE 540AD-424 MAX	-
6481	ELECTRIC STRIKE 540ND-512 MAX	-
6490	ELECTRIC STRIKE 540N-524 MAX	11
6750	ELECTRIC STRIKE 990N MAX	10
6752	ELECTRIC STRIKE 990A MAX	10
6753	ELECTRIC STRIKE 990AD MAX	10
6770	ELECTRIC STRIKE 990N-424 MAX	-
6780	ELECTRIC STRIKE 990N-512 MAX	10
6781	ELECTRIC STRIKE 990ND-512 MAX	10
6790	ELECTRIC STRIKE 990N-524 MAX	10
6935	CITYLINE FINGERPRINT READER	47
6991	MEMOKEY CITYLINE	45
6992	CITYLINE PROXIMITY READER	46
7768	YBX-TYPE GRAY SHIELD	36
7769	YLX-TYPE SHIELD STAINLESS STEEL	10,37
7770	YSX-TYPE GRAY SHIELD STAINLESS STEEL	10,36
7771	YGX-TYPE GRAY SHIELD STAINLESS STEEL	10
7772	LOCK RELEASE 840N (8401/G)	-
7775	BRACKET F DOOR FIREWORKS	33
7776	DOOR CONTACT 2CN (DOUBLE)	40
7778	E. ESTRIKE ANTIAVALANCHA N-412 MAX DCH.	20
7779	E. ESTRIKE ANTIAVALANCHA N-412 MAX IZQ.	20
7780	E. ESTRIKE ANTIAVALAN. N-412 CTC MAX D	20
7781	E. ESTRIKE ANTIAVALAN.N-412 CTC MAX IZ	20
7782	E. ESTRIKE ANTIAVALANCHA N-512 MAX DCH.	20
7783	E. ESTRIKE ANTIAVALANCHA N-512 MAX IZQ.	20



REF.	DESCRIPTION	PAGE	REF.	DESCRIPTION	PAGE
7784	e. estrike antiavalan. n-512 ctc max d	20	29588	LOCK RELEASE 300N-412-S MAX	12
7785	E. ESTRIKE ANTIAVALAN. N-512 CTC MAX IZ	20	29670	LOCK RELEASE 300N-512-S CTC	12
7786	E. ESTRIKE ANTIAVALANCHA N-524 MAX DCH.	20	30388	LOCK RELEASE 300A-412-S MAX	-
7787	E. ESTRIKE ANTIAVALANCHA N-524 MAX IZQ.	20	30502	ALUMINUM PROFILE ELECTROMAG.	-
7788	E. ESTRIKE ANTIAVALAN.N-524 CTC MAX D	20	30503	ELECTROMAG. SWING DOOR M54 CTC LED	24
7789	E. ESTRIKE ANTIAVALAN. N-524 CTC MAX IZ	20	30571	LOCK RELEASE 540A-412-S MAX	11
7790	SX770-TYPE RIGHT	20	30581	LOCK RELEASE 540AD-412-S MAX	11
7791	SX770-TYPE SHIELD LEFT	20	30591	LOCK RELEASE 540ND-412-S MAX	11
7792	GX770-TYPE RIGHT	20	30691	LOCK RELEASE 540A-S MAX	11
7793	GX770-TYPE SHIELD LEFT	20	30692	LOCK RELEASE 540A-M MAX	-
7794	CLOSER DC3H GRAY	42	30701	LOCK RELEASE 540N-412-S MAX	11
17368	ELECTRIC STRIKE 500A MAX	15	30711	LOCK RELEASE 540N-S MAX	11
17388	ELECTRIC STRIKE 500AaD MAX	-	30712	LOCK RELEASE 540N-M MAX	11
17398	ELECTRIC STRIKE 500ND-412 MAX	-	30938	LOCK RELEASE 300AD-412-S MAX	12
17428	ELECTRIC STRIKE 500Aa-412 MAX	-	64551	LOCK RELEASE 540AbD-S MAX	11
17438	ELECTRIC STRIKE 500AaD-412 MAX	-	64651	LOCK RELEASE 540AbD-412-S MAX	11
17448	ELECTRIC STRIKE 500N-512 MAX	15	64721	LOCK RELEASE 540A-424-S MAX	-
17458	ELECTRIC STRIKE 500N-424 MAX	-	64801	LOCK RELEASE 540N-512-S MAX	11
17468	ELECTRIC STRIKE 500N-524 MAX	-	64802	LOCK RELEASE 540N-512-M MAX	11
23361	PROXIMITY CARD WITHOUT MAGNETIC STRIP EM	46,47	64901	LOCK RELEASE 540N-524-S MAX	-
24661	PC READER INTERFACE	-	67500	ELECTRIC STRIKE 990N-CTC MAX	10
28151	LOCK RELEASE 540Aa-S MAX	11	67501	LOCK RELEASE 990N-P22 MAX	10
28171	LOCK RELEASE 540Aa-412-S MAX	11	67503	LOCK RELEASE 990N-P22 CTC MAX	-
28201	LOCK RELEASE 540AD-S MAX	11	67511	LOCK RELEASE 990ND-P22 MA	10
28202	LOCK RELEASE 540AD-M MAX	-	67521	LOCK RELEASE 990A-P22 MAX	10,44
28258	ELECTRIC STRIKE 500Aa MAX	15	67522	LOCK RELEASE 990A-L22 MAX	10
28278	ELECTRIC STRIKE 500N-412 MAX	15	67531	LOCK RELEASE 990AD-P22 MAX	10
28298	ELECTRIC STRIKE 500N MAX	15	67532	LOCK RELEASE 990AD-L22 MAX	10
28341	LOCK RELEASE 540ND-S MAX	11	67800	ELECTRIC STRIKE 990N-512 CTC MAX	10
28342	LOCK RELEASE 540ND-M MAX	-	67803	LOCK RELEASE 990N-512-P22 CTC MAX	-
29001	TIMER	41	67900	ELECTRIC STRIKE 990N-524 CTC MAX	10
29580	LOCK RELEASE 300N-412-S CTC	12	88101	RELAY 18Vdc DOUBLE	41

70

#### COMMERCIAL CONDITIONS OF SALE

The present commercial conditions of sale shall be applicable to all sales or deliveries carried out by FERMAX, unless otherwise agreed in writing with the Buyer.

#### ORDERS

Orders shall be processed exclusively through authorized distributors.

#### DELIVERIES

The delivery dates agreed with FERMAX shall be considered approximate. FERMAX undertakes to do its utmost to comply with the agreed delivery dates, always provided the Buyer facilitates all correct information relating to the order and the delivery with sufficient anticipation.

The delivery term shall be reasonably extended when causes beyond the decision and control of FERMAX prevent to comply with the agreed delivery date.

#### ACCEPTANCE OF GOODS

The Buyer shall review and inspect the goods, as to quality and quantity, within the maximum period of five days after the date of delivery.

#### OWNERSHIP RESERVE AND RISKS

FERMAX shall continue to be the lawful owner of the Products supplied until the full payment of the agreed amounts. Notwithstanding the above, the risks inherent to the Products supplied shall be conveyed to the Buyer from the moment the Products are delivered by FERMAX.

#### PRICES

Prices do not include any indirect taxes applicable according to the legislation in force from time to time. Other taxes, duties and charges that must be applied shall be borne by the Buyer, unless otherwise agreed in writing with FERMAX.

#### SHIPPING COSTS

Prices established in offers, orders, catalogues and other documents are EXWORKS prices.

Prices do not include the shipping cost except otherwise clearly indicated.

#### PAYMENT

Unless FERMAX and the Buyer agreed otherwise in writing, payments shall be made within the periods established by the legislation in force.

FERMAX may require the necessary guarantees to assure that the Buyer complies with all agreed payment terms and conditions, if appropriate considering the financial position of the latter.

#### **GUARANTEES**

FERMAX shall provide guarantee during a period of TWO (2) YEARS following the date of the sale invoice for any original defects in the Products, subject to the terms and conditions established in the legislation in force and in these Commercial Conditions of Sale. This guarantee shall be processed by the Official Technical Services and Official Distributors of FERMAX, regardless the location of purchase.

The Products processed for guarantee that do not comply with the provisions set forth in the previous paragraph shall be treated as out of guarantee. FERMAX reserves the right to apply the appropriate measures to compensate any possible damages caused.

Any deficiencies beyond the control of FERMAX shall be excluded from the guarantee and liability of the latter, specially when they are the result of normal wear, false information provided by the Buyer, inadequate maintenance, failure to observe the operating instructions, use of any inappropriate material, influence of chemical or electrolytic action or other similar causes.

The guarantee of FERMAX shall be subject to the appropriate compliance with all payment terms and conditions agreed with the Buyer.

#### DAMAGES

Under no circumstances shall the Buyer be authorized to make contractual or extracontractual claims for damages deriving from, but not limited to, the loss of production, use, orders, profits, nor for any other direct, indirect or consequential damages. FERMAX shall be only liable to compensate the client for the costs associated to repairing the deficiencies or incidents occurred during the process of supplying the goods that are attributable to the former.

#### RETURNS

All returns of material must attach a Return Authorization Document to be obtained from the Sales Department. All materials must be in mint condition and

include the original packaging before any return is authorized. Depreciations may be applied according to the corresponding policies in force.

FERMAX reserves the right to modify these commercial conditions of sale, as well as the prices of the Products. The technical and aesthetic characteristics of the Products may be modified from time to time. The graphic representations included are merely for illustrative purposes. FERMAX  $^{\circ}$  is a registered trademark. All intellectual property and license rights reserved.



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