



Exit doors
hardware



Index

PANIC DEVICES

Selection 4

UNIVERSAL Series

- 1970 model for 1 or 2 leafs 6-8
- 1910 model. 1 point lock 9
- 1920 model. 2 points lock 9
- 1930 model. 2 points lock 10
- 1950 model. 3 points lock 10
- Outside devices for rim models 1910, 1920, 1930 and 1950 11

TEMPRO Series

- TM1E model for 1 or 2 leafs 13-15
- TM1S model. 1 point lock 16
- TM2S model. 2 points lock 16
- TM3S model. 3 points lock 17
- Outside devices for rim models TM1S, TM2S and TM3S 17

PANIC DEVICES FOR DISABLED PEOPLE

EMERGENCY EXITS DEVICES

ELECTRICALLY CONTROLLED DEVICES

P.E.S. : Panic exit systems 20

E.E.S.: Emergency exit systems 22

P.E.S. example 25

Introduction

Public buildings and in general most factories, administratives buildings, shops etc. face two important problems: the safety and security on the public and property.

In this chapter, TESA offers different solutions to equip the emergency exits, allowing safe and effective exit in emergencies and/or panic situations.

TESA offers a range of products already certified by independent laboratories and which respond to the requirements (security, resistance, easy use, ...) fixed by the European Norms and with maximum guarantees of quality and environmental respect, accredited by ISO 9001 and ISO 14001 certificates.



Regulation

All the products are made in accordance with the European Norms and these norms have the aim of guarantee, safety and effectiveness exit with a minimum effort

The enforcement of these European Regulations is guaranteed when the panic devices are certified in accordance with the regulations which specify the requisites for the manufacture, features and tests of the same.

- **EN 1125:** Building hardware -Panic exit devices operated by a horizontal bar- Requirements and test methods.
- **prEN 13633:** Electrically controlled panic systems.
- **EN 179:** Building hardware - Emergency exit devices operated by a lever handle or push pad
- **prEN 13637:** Electrically controlled emergency devices.

Photo Index

TESA Panic Devices



Universal

5/VE



Tempo

12/VE

TESA Emergency Devices



Push Pad

18/VE

PANIC DEVICES

TESA

Use



fig.1

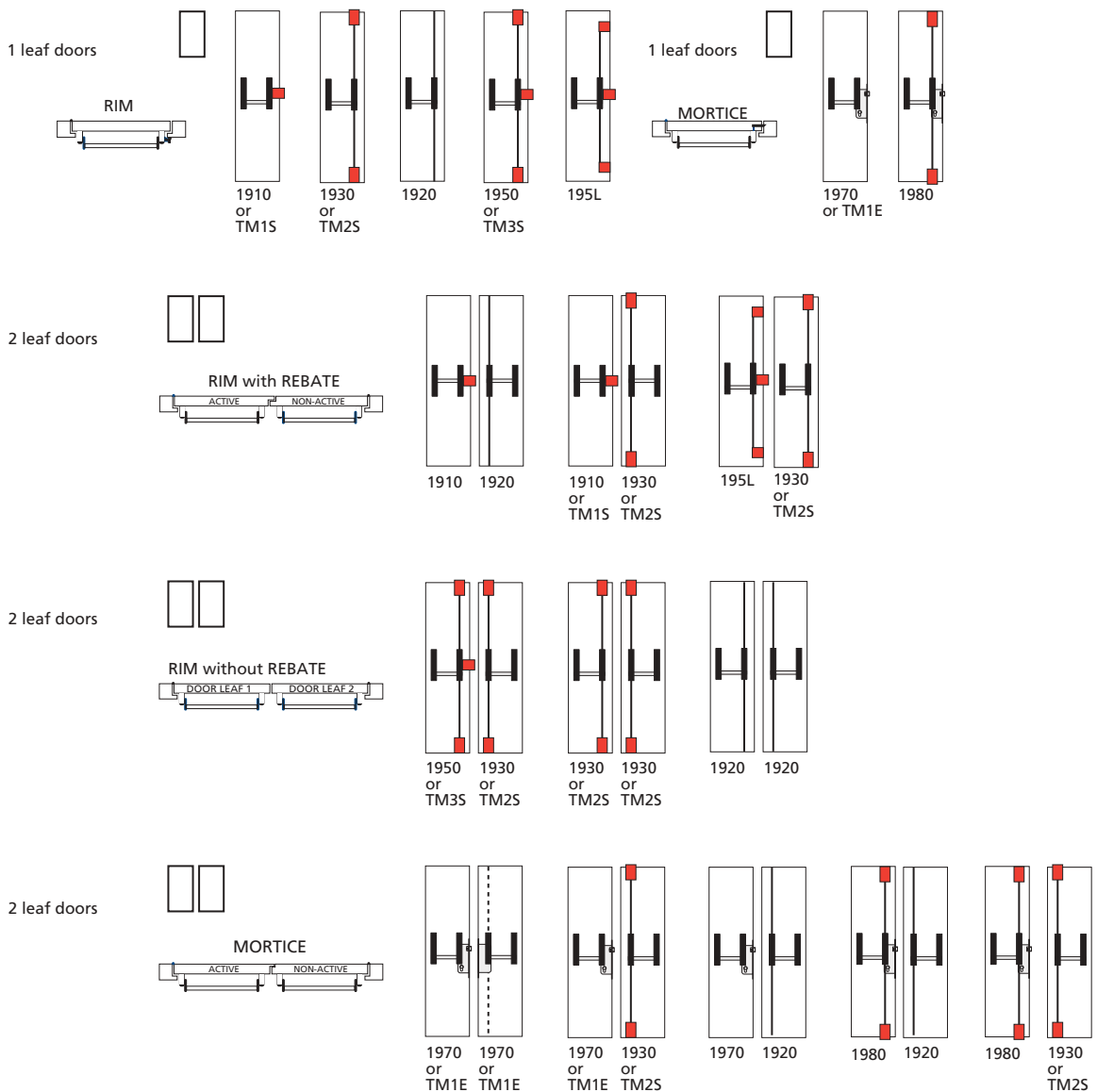
The principal object is to allow a door to open at any time with the minimum effort (children, old people, the disabled, ...) and without prior knowledge of the device and without the use of a key or other object.

In a panic situation, probably in the dark and/or with smoke, it is probable that a person will not necessarily activate the panic device but will directly push against the door (door under pressure) while others may attempt to operate the horizontal bar with hands or body (fig. 1).

TESA panic devices are certified in accordance to the European Norm EN 1125, which specifies, among other things, the obligation to provide an easy opening even under a 100 Kg.

TESA

Selection



Universal Series

TESA

Main features

The variety of functions which this series presents permits solutions to any installations in both single leaf and double leaf door. All the models present the following characteristics:

- Very easy reversibility
- Applicable to fire doors
- Outside lever handles:

- **Modular lever:** handle using European profile cylinder 30x10 mm which allows installation in any thickness of door.



- **Sena lever:** uses an adjustable cylinder for doors between 32 and 82mm tick.



Reversibility

- Thin supports for profiles of reduced dimension.
- Possibility of incorporating a microswitch.



Thin supports

- Easy to install thanks to:
 - The regulation of 40 mm of the vertical rods
 - The possibility to cut the horizontal bar to fit the width of any door.
- Standard finish:
 - Supports, vertical rods and upper/lower locking points in BLACK (RAL 9005 matt).
 - Active bar in GREEN (RAL 6002).



Adjustable

- Other combination finishes possible by order:

		Horizontal Bar				
		V	R	N	C	I
Supports and vertical rods	N	•	•	•	•	•
	S				•	•
	I					•

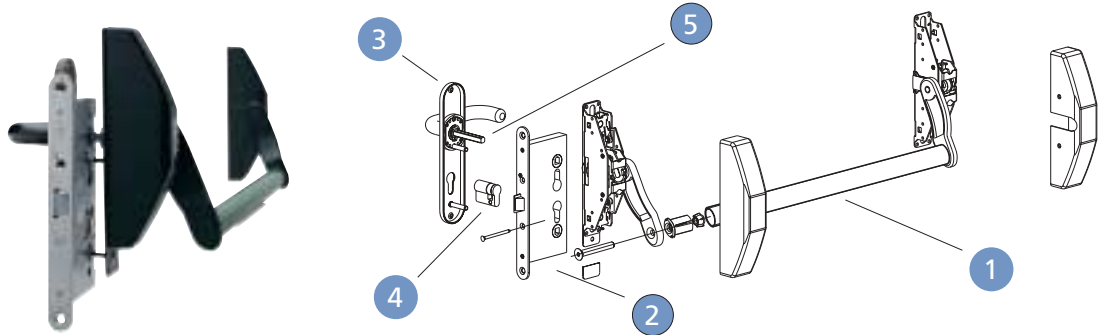
Matt nickel coated-Satin finish.
Red (RAL 3000)
Chrome coat
Stainless steel (AISI 304)

N: black
S: shiny
V: green
R: red
C: chrome
I: stainless

Universal Series

TESA

Mortice Model 1970. Double doors.



EN 1125 certificate in the 2 units: 1970+CF60T and 1970+2035T/4039T :

3 7 6 1 1 3 2 2 A

1 Panic Device

The box includes:

- 1 oval shape horizontal bar 900 mm in length.
- 1 main support and 1 auxiliary support.
- 1 inner plate (Ref. E1971INNE) to be used only with CF60 lock series
- Assembly instructions and installation template.
- Accessories:
 - Fixing screws
 - Screws witch support the horizontal bar.
 - A plastic hub cap (to be placed with the inner plate)
- Squares spindles:
 - Panic device with 8 mm follower:**
 - Double screwed square spindle 8/8 + 8/8.
 - Panic device with 9 mm follower:**
 - Double screwed square spindle 9/9 + 9/9.

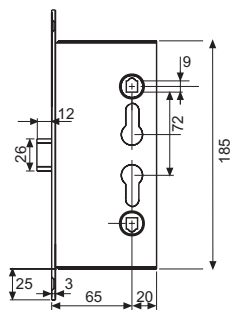
Model	Bar length	follower, mm	Support finished	Horz. bar finished
1970	90	8/9	Black	V/N/R
	90	8/9	Black	Chrome
	90	8/9	Black	Stainless
	90	8	Satin	Chrome
	90	8/9	Satin	Stainless
	00	8/9	Black	



2 Locks



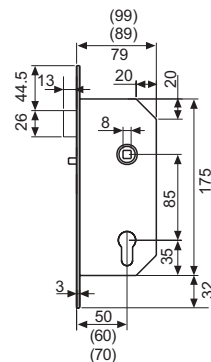
CF60T
9 mm follower



2035T*
8 mm follower



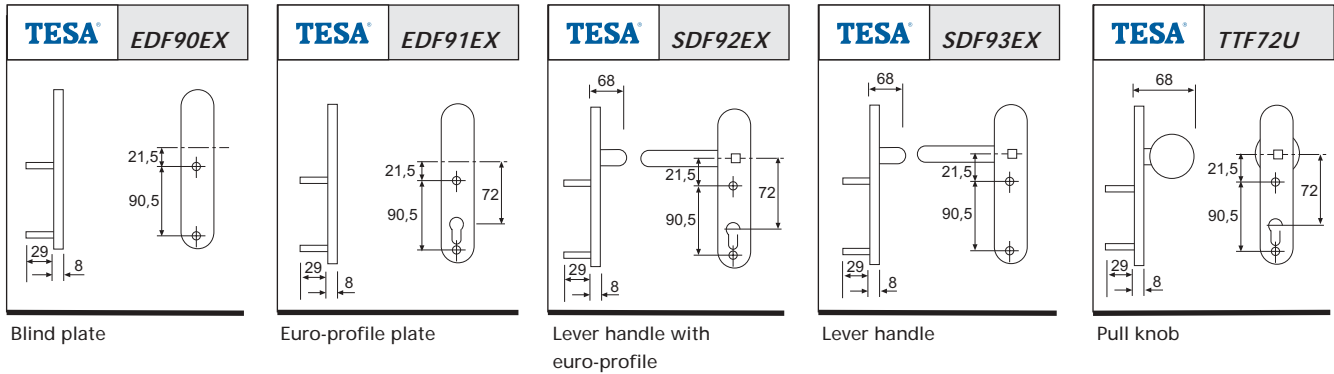
4039T*
8 mm follower



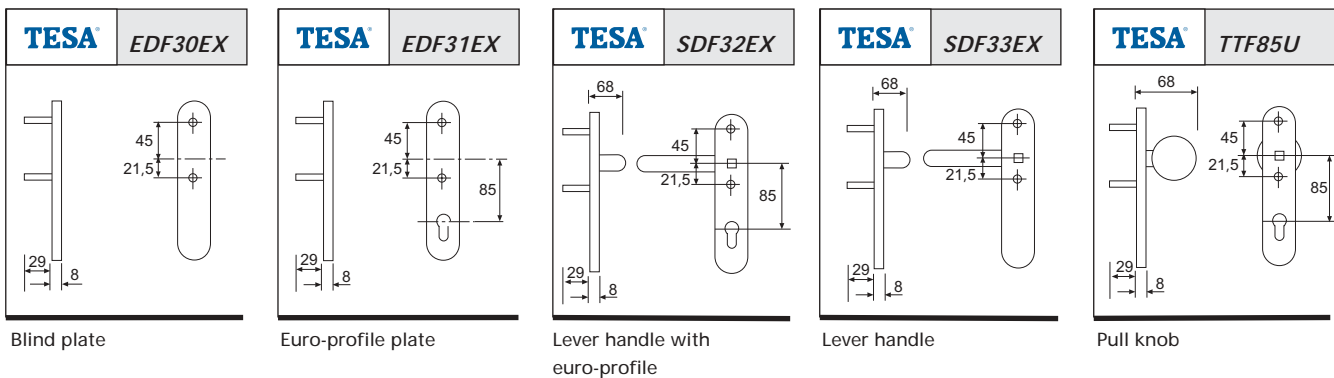
* 2035T/ 4039T locks are not reversible, it is necessary specify Left or Right hand

3 Outside devices

To be used with CF60 lock series



To be used with 4030 lock series



Finishes: BLACK and STAINLESS STEEL

4 Cylinders

Any type of TESA cylinder can be used, this facilitating the Masterkeying. Cylinder length will depend on the lock position and the door thickness.



5 Squares spindles

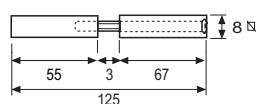
1970 panic device model include:

Panic device with 8 mm follower:

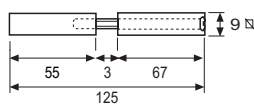
- Double screwed square spindle 8/8 + 8/8. Ref.: CD2030S8M

Panic device with 9 mm follower:

- Double screwed square spindle 9/9 to 9/9.



CD2030S8M



CD9X559X67

TESA

Rim model 1910

AENOR



Producto
Certificado

047/000029



Rim panic device with a lateral lock point.
Stainless steel swing latch.
Outside devices; see page 11/VE.
EN 1125 certification:

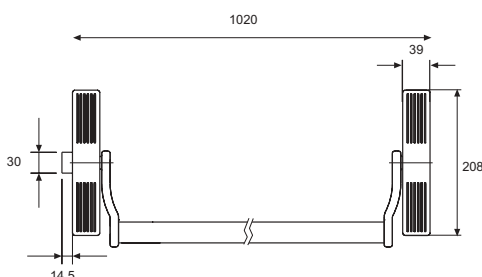
3 7 6 1 1 3 2 2 A

The box includes:

- 1 principal support and another secondary one.
- 1 oval shaped horizontal bar, 900 mm in length.
- Accessories: Fixing screws, screws witch support the horizontal bar, 1 square spindle (8x8x90mm) and strike.
- Assembly instructions and installation template.



1/1 units



TESA

Rim Model 1920

AENOR



Producto
Certificado

047/000029



Rim panic device with 2 locking points with roller bolts. Used when a rim strike can not be installed in the lower lock point.

EN 1125 certification:

3 7 6 1 1 3 2 2 A

Operation: The upper vertical rod is found in the strike supported by the door frame, and the lower one in the floor strike. By activating the panic device the vertical rods are released from their clasps and are held by the rod retainer. On closing the door a moving piece on the rod retainer hits the frame freeing the movement of the rods which return into place in the strikes.

Standard height: 2210 mm.

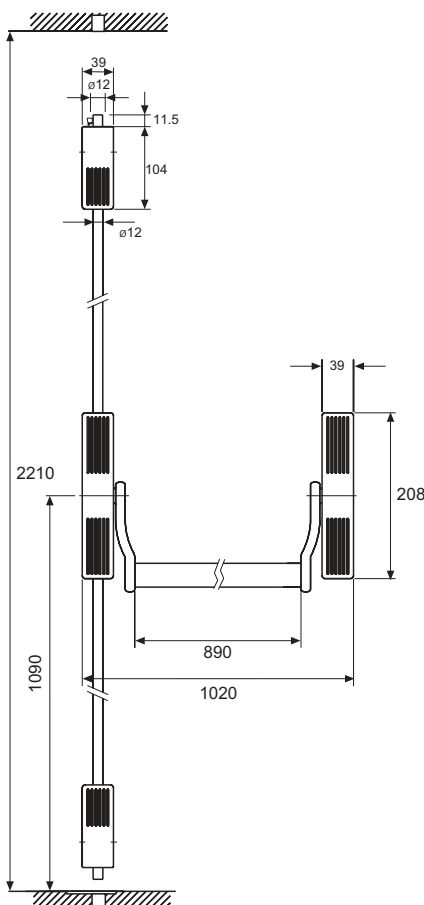
Outside devices; see page 11/VE.

The box includes:

- 1 principal support and a secondary one.
- 1 oval shape horizontal bar of 900 mm in length.
- 2 vertical rods of 930 mm.
- Accessories bag includes: Fixing screws, screws witch support the horizontal bar, 1 square spindle (8x8x90mm), 2 vertical rod guides and strikes.
- Assembly instructions and installation template.
- 2 locking points, upper and lower.



1/1 units



TESA

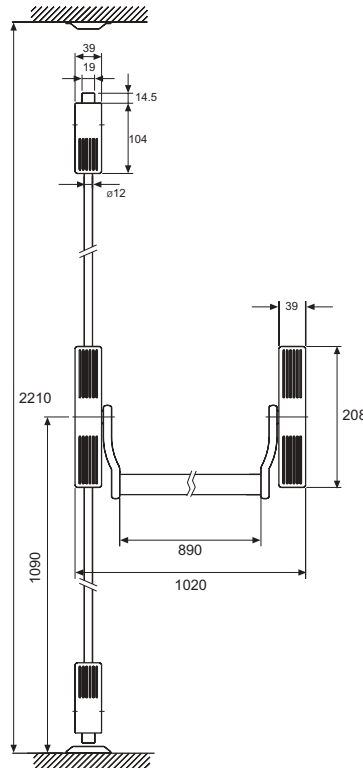
Rim Model 1930

AENOR



Producto
Certificado

047/000029



Rim panic devices with 2 locking points, upper and lower. Steel swing latches. Standard height: 2210mm. Outside devices. see page 11/VE.

Certification UNE-EN 1125:

3 7 6 1 1 3 2 2 A

The box includes:

- 1 principal support and a secondary support.
- 1 oval shape horizontal bar of 900 mm length.
- 2 vertical rods of 930 mm.
- Accessories bag includes: Fixing screws, screws witch support the horizontal bar, 1 square spindle (8x8x90mm), 2 vertical rod guides and strikes.
- Assembly instructions and installation template.
- 2 locking points, upper and lower.



1/1 units

TESA

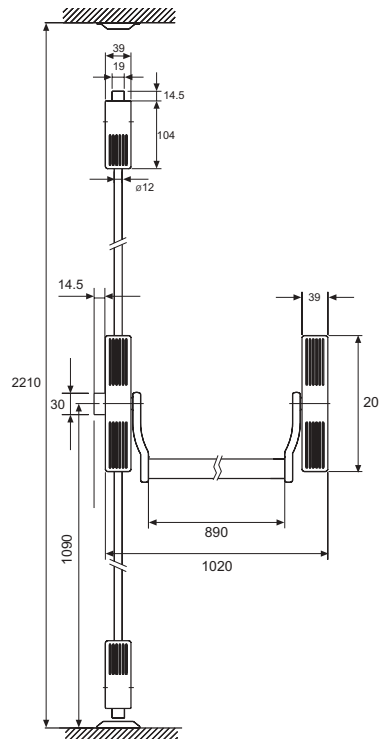
Rim Model 1950

AENOR



Producto
Certificado

047/000029



Rim panic devices with 3 locking points, upper, lower and central. Steel swing latches.

Standard height: 2210mm.

Outside devices, see page 11/VE.

Certification UNE-EN 1125:

3 7 6 1 1 3 2 2 A

The box includes:

- 1 principal support and a secondary support.
- 1 oval shape horizontal bar of 900 mm length.
- 2 vertical rods of 930 mm.
- Accessories bag includes: Fixing screws, screws witch support the horizontal bar, 1 square spindle (8x8x90mm), 2 vertical rod guides and strikes.
- Assembly instructions and installation template.
- 2 locking points, upper and lower.



1/1 units

Upper and lower side latches also available (model 195L)

TESA Outside Devices for Universal Series Rim Models

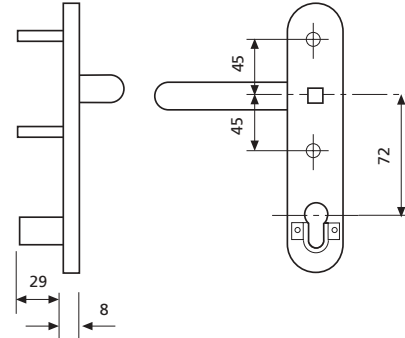
Sena lever handle



Adjustable cylinder available with all systems

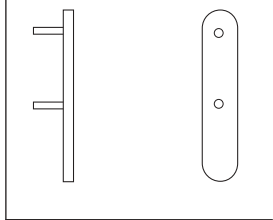
Finish: Black(NE) and Stainless Steel (IS)

TESA S1912EX



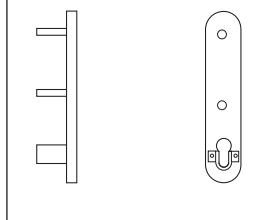
Lever handle with euro-profile

TESA E1910EX



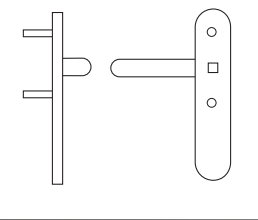
Blind plate

TESA E1911EX



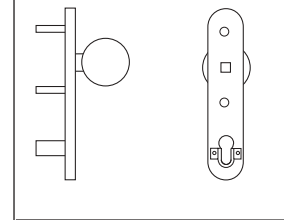
Euro-profile plate

TESA S1913EX



Lever handle

TESA TTF10UNE



Pull knob

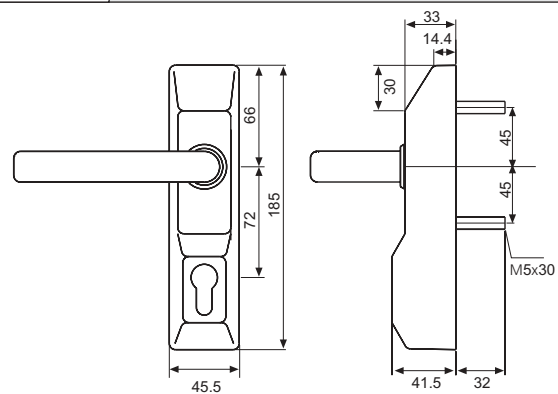
Modular lever handle



30x10 cylinder with r=15 mm available with all systems

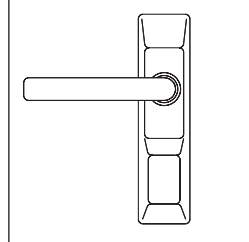
Finish: Black (NE) and silver (PL)

TESA MMPS2



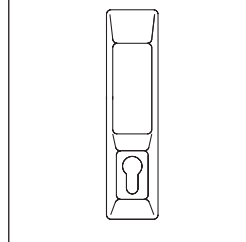
Lever handle with euro-profile

TESA MMPS3



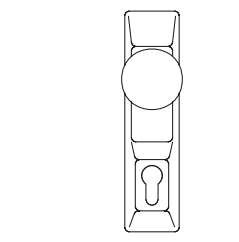
Lever handle

TESA MMPS1



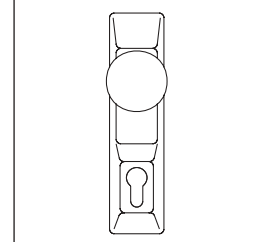
Euro-profile plate

TESA MMPP2



Swing pull knob + key

TESA MMP4



Pull knob + key

Tempo Series

TESA

Features

The multiple functions that this series offer, allow solutions to be met for any installation, both single as well as double doors. All the models have the following characteristics:

- Very easy reversibility.
- Applicable to fire doors
- Outside lever handles:

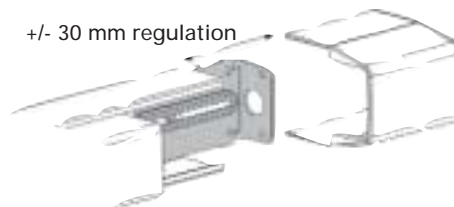
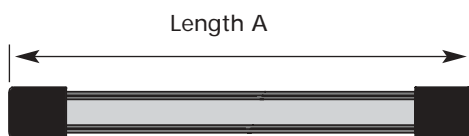
- **Modular lever handle:** using European profile cylinder 30x10 mm which permits installation in any thickness of door.



- **Sena lever handle** (only mortice)



- Swing latches for smooth closing..
- Possibility of including a microswitch.
- Panic device model with the possibility of a motorized latch (minimum length 780mm).
- 14 standard lengths with ± 30 mm regulation, which avoids the necessity to cut the panic device during installation:



A (mm)	460	520	580	640	680	740	780	840	880	940	980	1040	1080	1140

- Standard finish:

-Horizontal support, vertical rods and upper/lower locking points: BLACK (RAL 9005 matt)

-Active aluminium bar: GREEN (RAL 6002).

Available finishes by special order:

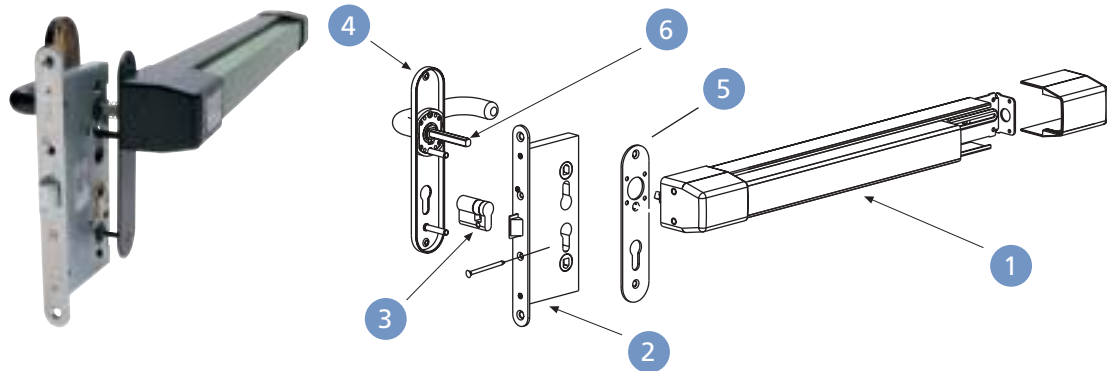
-Horizontal support, vertical rods and upper/lower locking points always in BLACK (RAL 9005 matt).

-Active bar: Black (RAL 9005 matt)
 White (RAL 9010)
 Red (RAL 3000)
 Anodized silver
 Stainless Steel (AISI 304)

Tempo Series

TESA

Mortice model TM1E. Single door doors.



EN 1125 certification of the 2 units: TM1E - CF60T and TM1E - 2035T / 4039T

3 7 6 1 1 3 2 2 B

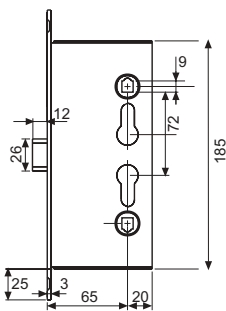
1 Panic Devices

The box includes:

- Active bar and modular head with clasp for square spindle.
- Accessories:
 - Double screwed square spindle 8/8 + 8/8.

2 Locks

Possibility of face plate in stainless steel.



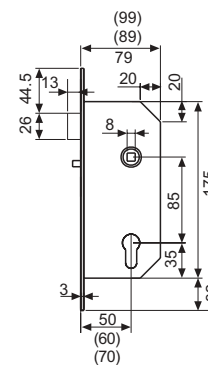
CF60T
9 follower



2035T*
8 follower



4039T*
8 follower



* 2035T / 4039T are not reversible, it is necessary to specify Left or Right hand.

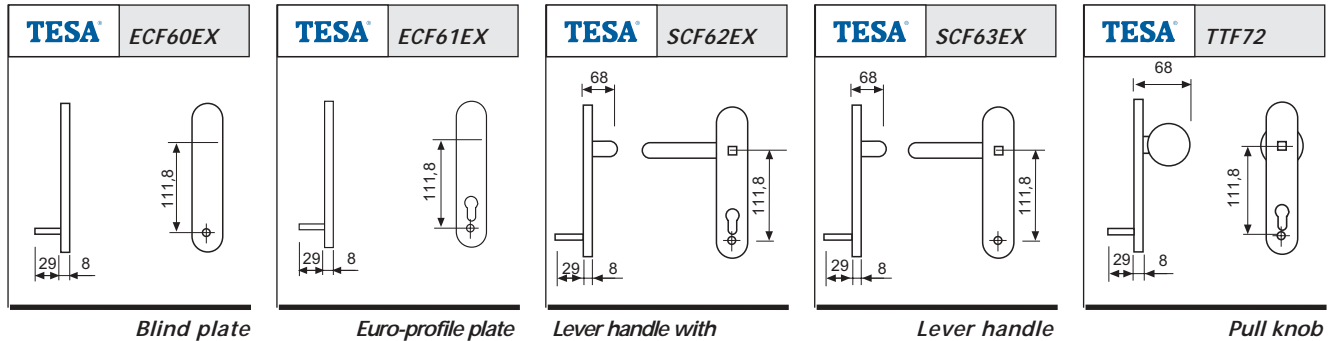
3 Cylinders

Any type of TESA cylinder can be used, this facilitating the Masterkeying. Cylinder length will depend on the position of the lock and the thickness of the door.

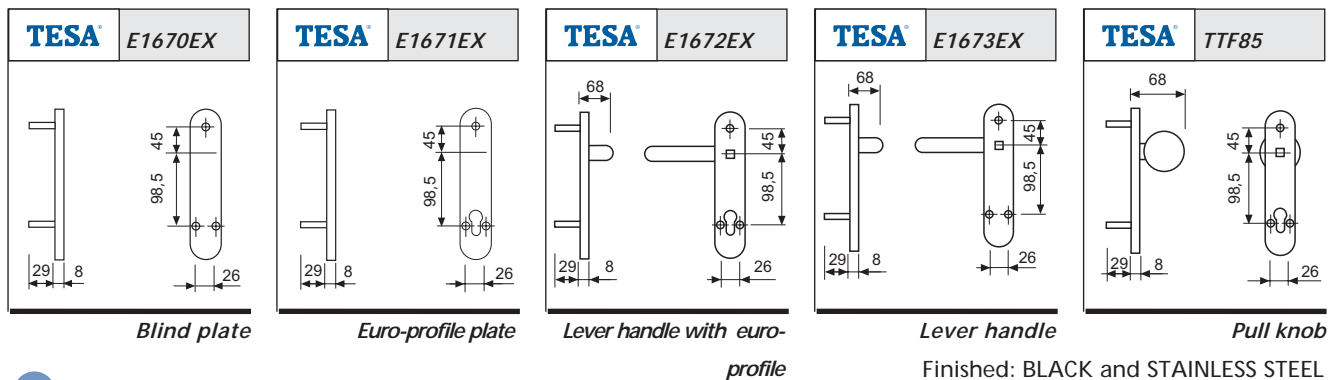


4 Outside devices

To be used with CF60T lock series



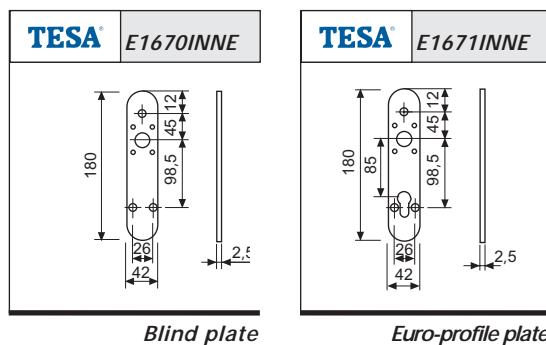
To be used with 4030T lock series



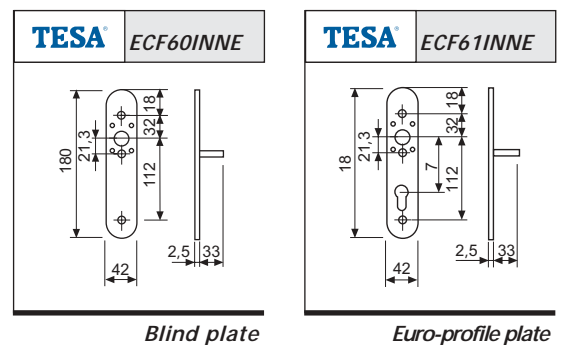
5 Inner devices

These elements include the fixation screws.

To be used with 4030T lock series



To be used with CF60T lock series

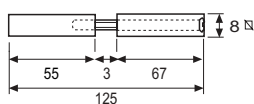


Black finished (NE)

6 Square spindles

All panic devices TM1E include:

- Double screwed square spindle 8/8 + 8/8. Ref.: CD2030S8M

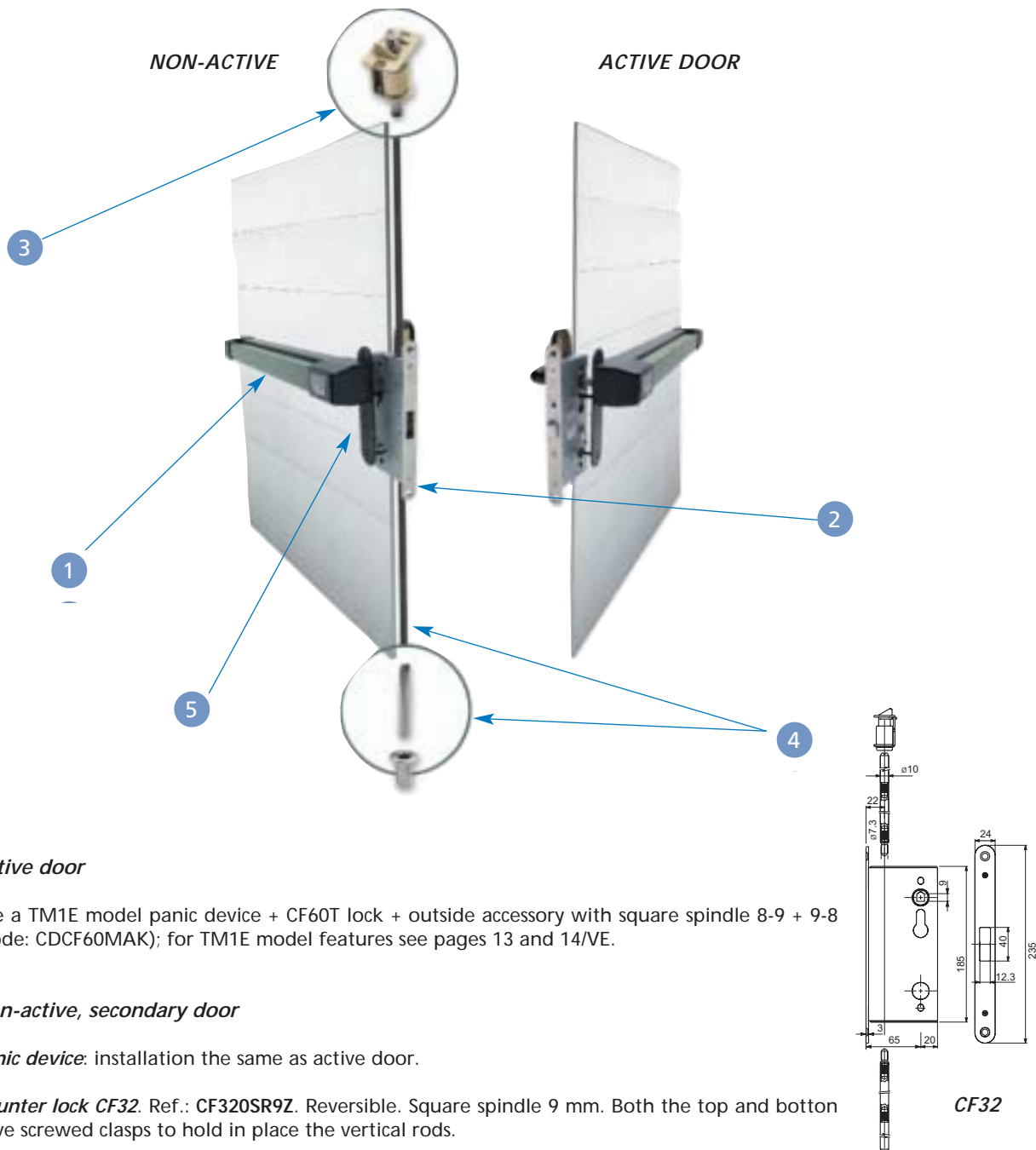


CD2030S8M

Tempo Series

TESA

Mortice model TM1E, two leaf doors.



Active door

Use a TM1E model panic device + CF60T lock + outside accessory with square spindle 8-9 + 9-8 (Code: CDCF60MAK); for TM1E model features see pages 13 and 14/VE.

Non-active, secondary door

- 1 **Panic device:** installation the same as active door.
- 2 **Counter lock CF32.** Ref.: CF320SR9Z. Reversible. Square spindle 9 mm. Both the top and bottom have screwed clasps to hold in place the vertical rods.
- 3 **Vertical rod retainer.** Ref.: RETFACF32. It is placed on the inside of the door at the top point of closing. Operation: activating the panic device, the vertical rods are released from their clasps and are supported by the retainer. On closing the door the retainer hits the strike freeing the movement of the vertical rods and allowing the door to be closed.
- 4 **Vertical rods** (upper and lower). Ref.: BARVECF32. One end finishes with a roller bolt for the locking points and the other has screwed ends to enable union with the counter lock CF32. This reference also includes the floor strike.
- 5 **Inner plate.**

TESA

Rim Model TM1S

AENOR



Producto
Certificado

047/000029

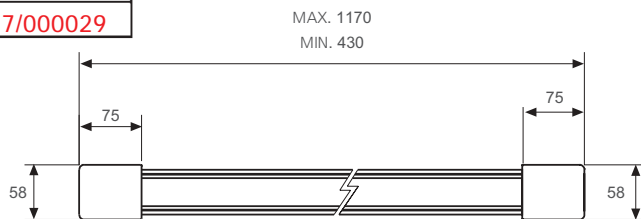


Rim panic device with a lateral locking point. Stainless steel swing latch. Outside devices; see page 17/VE.

Certification UNE-EN 1125:

3 7 6 1 1 3 2 2 B

- 1 horizontal bar and a modular head.
- Accessories: Square spindle (8x8x120), fixing screws, strike and plastic covers for vertical rod ends.
- Assembly instructions and installation template.



1/1 units

TESA

Rim Model TM2S/TM3S

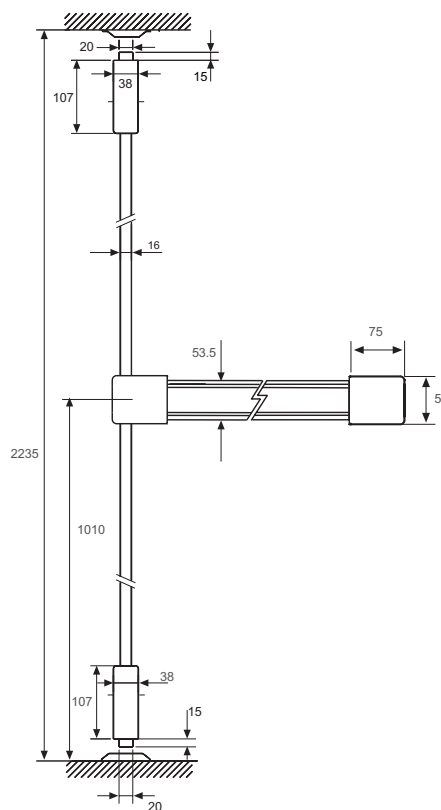


AENOR



Producto
Certificado

047/000029



Rim panic device with 1 locking points, upper and lower. Stainless steel swing latch. Outside devices; see page 17/VE.

The box includes:

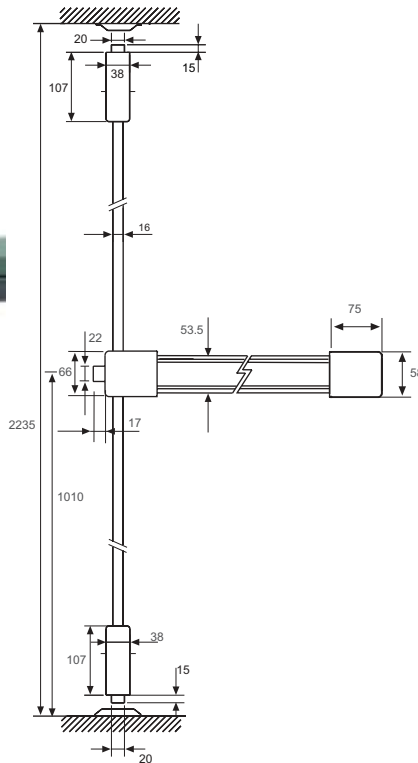
- 1 horizontal bar and a modular head.
- 930 mm length vertical rod.
- 1140 mm length vertical rod.
- 2 locking points, upper and lower.
- Accessories: Fixing screws, 3 strikes: upper, central and lower, 1 plastic cover for central locking point, 1 square spindle (8x8x120mm).
- Assembly instructions and installation template.

3 7 6 1 1 3 2 2 B



1/1 units

TESA Rim Model TM2S/TM3S



Rim panic device with 3 locking points: upper, central and lower. Stainless steel swing latch.

Outside devices; see page 17/VE.

The box includes:

- 1 horizontal bar and a modular head.
- 930 mm length vertical rod.
- 1140 mm length vertical rod.
- 2 locking points, upper and lower.
- Accessories: Fixing screws, 3 strikes: upper, central and lower, 1 square spindle (8x8x120mm).
- Assembly instructions and installation template.

3 7 6 1 1 3 2 2 B



AENOR



Producto Certificado

047/000029

TESA Outside devices for the Rim models of the Tempro Modular series

In the outside devices the modular handle is always used and is activated by 30x10 cylinders at any TESA system.

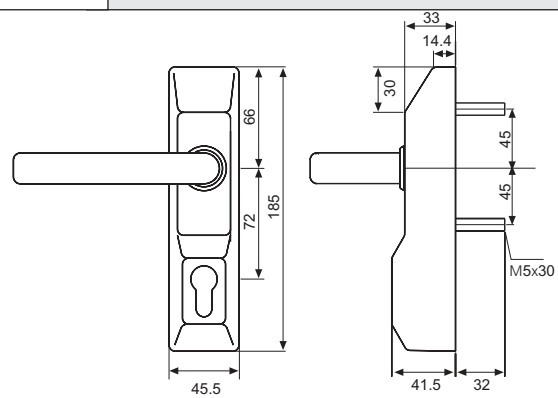


Finish: Black

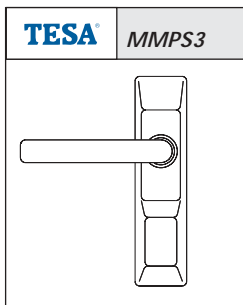


30x10 cylinder with r=15 mm available with all systems

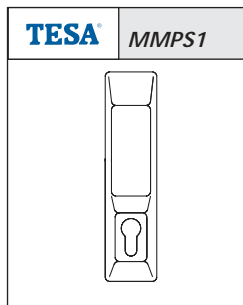
TESA MMPS2



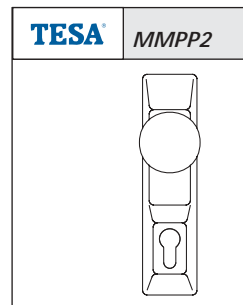
Lever handle with euro-profile



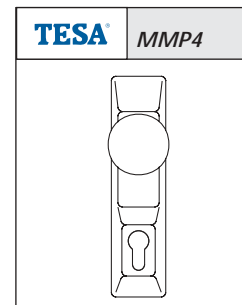
Lever handle



Euro-profile plate



Swing pull knob + key



Pull knob + key

TESA

Model 191D / 193D

AENOR

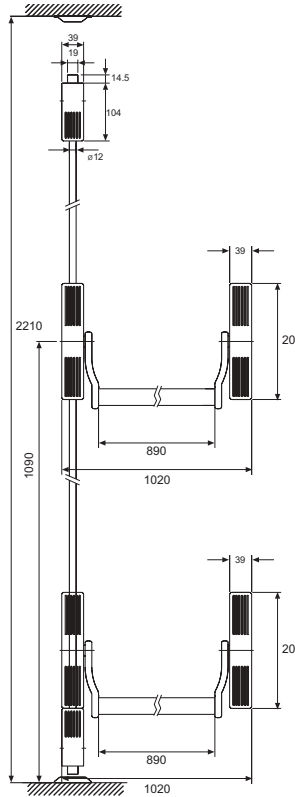


Producto
Certificado

047/000029



Model 193D



Rim panic devices for handicapped with 1(2) locking points. Steel swing latches.
Standard height: 2210mm.
Outside devices, see page 11/VE.
Certification EN 1125:

3 7 6 1 1 3 2 2 B

The box includes:

- 2 principal support and 2 secondary supports.
- 2 oval shape horizontal bar of 900 mm length.
- 1(2) vertical rods of 930 mm.
- Accessories bag includes: Fixing screws, screws witch support the horizontal bars, 1 square spindle (8x8x90mm), 1(2) vertical rod guides and strikes.
- Assembly instructions and installation template.



1/1 uds.

TESA

Model TM1D / TM3D

AENOR

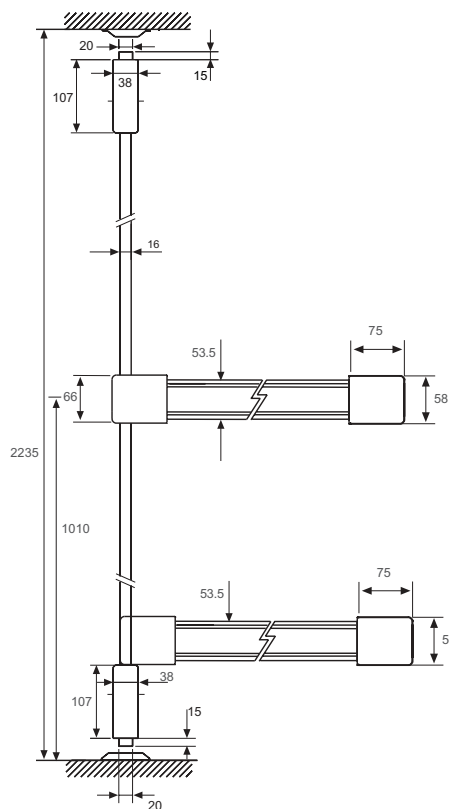


Producto
Certificado

047/000029



Model TM3D



Rim panic device with 1(2) locking points. Stainless steel swing latch.
Outside devices; see page 17/VE.
Certification EN 1125:

3 7 6 1 1 3 2 2 B

The box includes:

- 2 horizontal bar and 2 modular heads.
- 930 mm length vertical rod.
- (1140 mm length vertical rod.)
- (2 locking points, upper and lower.)
- Accessories: Fixing screws, 1 plastic cover for central locking point, 1 square spindle (8x8x120mm).
- Assembly instructions and installation template.



1/1 uds.

TESA *Emergency exit devices*

The main objective is to permit the opening of a door as quickly as possible and in one single movement although this requires prior knowledge of this function.

Differentiating from panic devices, the emergency devices are destined to equip exit doors where the persons using them are familiar with the opening mechanism and where there is a little risk of a panic situation arising.

The European Norm in force -EN 179- does not stipulate any particular design, and accepts 2 types of operations: with lever handle and push-pad.

Examples of emergency devices are the mortice lock with panic function and lever handle or Push-Pad devices with rim latch.

TESA *1 point Push-Pad: TP910*

Certification EN 179:

3 6 6 1 1 3 2 2 B



TESA *2 points Push-Pad: TP920*

Certification EN 179:

3 6 6 1 1 3 2 2 B



TESA *2 points Push-Pad: TP930*

Certification EN 179:

3 6 6 1 1 3 2 2 B



TESA *Lock with lever handle*



TESA Introduction

In this section we continue with panic and emergency devices, but electrically controlled. Maintaining the main objective to allow the safe and effective evacuation by a door, the electrically controlled Systems offer greater exterior safety:

- The possibilities to customise each system according to the control and locking necessities required.
- Control from the interior of exterior access and exits via various doors at a time. Centralisation of control from one single unit.
- On-line information of the state of the doors.
- Compatible with fire detector installations and alarm centres.
- Positive security: if electric power fails, the door must be unblocked immediately.
- Different types of operation in one single system depending on the time period.

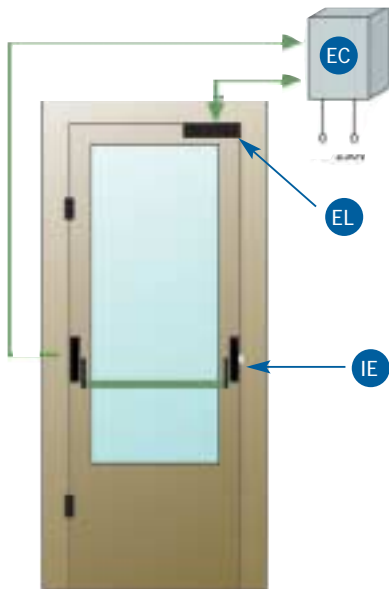
TESA Electrically controlled Panic Exit Systems (P.E.S.)

Application:

In places where panic situations are foreseeable.

Características:

- The door must be unblocked from the inside at all times in less than 1 second, and with only one hand operation and without the necessity to use a key.
- Prior knowledge on how to handle the device is no required. This device should cover at least 60% of the width of the door.
- It allows the emergency doors to be electrically controlled by means of an electric blocking element (EL), the disengaging element (IE) and electric control elements (EC).



- **Electrical locking element (EL)** keeps the door in a close position. Example: electromagnetic locks.
- **Initiating element (IE)** sends an electric signal to deadlock the door. Example: panic devices with microswitch.
- **Electric controlling element (EC)** powers links with and controls the electric blocking and disengaging elements. Example: Control Unit.

TESA Initiating element (I.E.)



Universal



Tempro

PANIC HARDWARE

Panic devices with microswitch **operating**: On handling the bar at any given point in its length and in the exit direction, an electric signal is sent which unlocks the door.

The mechanical **features** are similar to those figured in Tempro and Universal series.

TESA Electric Blockade Element (E.L.)

Electromagnetic locks (CEM) **operating**: When the circuit powered, the lock is converted in a electromagnet and when two pieces are join, keep the door close. Ensure resistance to a thrust of up to 1.500 Kg. depend model.

The CEM advantage respect rest of locks is that CEM haven't mobil pieces that may to hold up the opened movement.

		Max. Kg.	Magnetic sensor	Installation
Electromagnetic locks				
<p>CEM300SS0F</p>		300	YES	Rim

TESA Electric control without delay element. Control Unit (EL)



Features:

- It does not have temporization, as the opening is realised in less than a second.
- ABS box in Grey colour (RAL 7035), heat resistance and with grade IP56 protection.
- Power supply: $V_{out} = 12Vdc$ and $I_{out} = 2A$.
- Control circuit with 16 inputs for the activating and disengaging elements and 8 outputs with $V_{out}=12Vdc$ for connecting blocking elements or any device powered at 12Vdc. Control by means of a taped programme in a micro controller.
- Dimensions: 249x190x90 mm.
- Assembly instructions for each installation

Models:

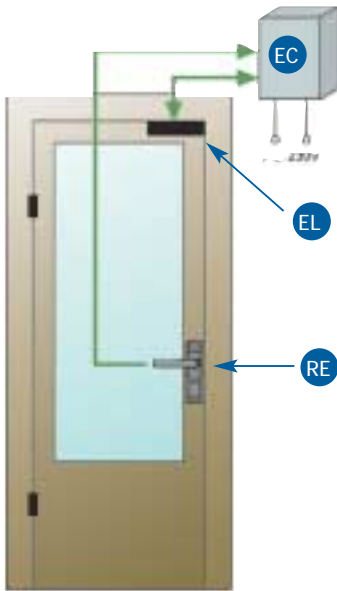
- Ref. UC10CEM00 for electromagnetic locks.
- Ref. UC10BM000 for motorised panic devices.
- Ref. UC10CE000 for electric strikes.
- Ref. UC10CM000 for motorised locks.

Application:

In locals where are NO foreseeable panic situations.

Features:

- This systems are must unblocks from inside with two hand operation maximum and without to use a key.
- It is possible delay the unblocked door.
- May be require a prior Knowledge of the device: it installation is advise when the people that use it are always the same and they know the operation.
- It allow to control electrically exit doors by an electric lock device (EL), electric request device (RE) and electric control device (EC).



Electrical locking element (EL) hold on door in close position. Sample: electromagnetic and electromechanical locks.

Requesting element (RE) it requests the electrical lock device opened to go out. Sample: lever handles, push pad, panic devices, etc.

Electrical controlling element (EC) it controls electrical lock and re quests devices. It can include DELAY at door unblocked. Sample: Control Unit with delay.



Características:

- There is possibility to use delay at the opening door.
- Hard plastic cover performed in grey colour (RAL 7035). ABS construction provides heat and flame resistance: IP56 protection grade.
- Power supply: Vout = 12Vdc and Iout = 2A.
- Control circuit with 16 inputs to connected panic devices with microswitch and 8 outputs with Vout=12Vdc to connected electromagnetic locks or other elements that they need 12Vdc. The control is with a program recorder in a microcontroler.
- Dimensions: 249x190x90 mm.
- The box including wiring instructions.

Models:

- Ref. UC10CEM00 for electromagnetic locks.
- Ref. UC10BM000 for motorised panic devices.
- Ref. UC10CE000 for electric strikes.
- Ref. UC10CM000 for motorised locks.

Delays:

- grade 0 : without delay.
- grade 1 : simple delay; $t \leq 15$ seconds.
- grade 2 : double delay; $t1 \leq 8$ seconds.
 $t2 \leq 180$ seconds.

TESA

Applicant element (R.E.)

Modular lever handles, sensitive touch bars, panic and emergency devices operation: when are used, send an electrical signal to allow open the door.

MODULAR LEVER HANDLE

Features:

- It has an inner microswitch.
- Fixation by pass bolts.

Operation:

when modular lever handle is used send an electrical signal to allow open the door.



MPMS2SCNE



BARVERTPL

SENSORINT

**VERTICAL SENSITIVE TOUCH BAR (BARVERTPL)
+
SENSORY CARD (SENSORINT)**

Features:

- Sensory card power supply: 12-24 Vdc.
- Power consumption: 0.5W approx. (40mA at 12Vdc)
- Inhibition time at the start: approx. 40 sec.
- Relay pickup time at a prolonged hand contact: approx. 40 sec.
- Sensory card dimensions: 117 mm (length) and 30 mm (diameter).
- Touch bar: anodised aluminium colour silver, tubular shape with supports in black nylon.
- Touch bar dimensions: 405 mm (length) and 35 mm (diameter).

Operating:

Opening impulse by simple contact with the hand, also wearing gloves.

PANIC DEVICES

Features:

The difference between this elements and the rest elements that you have seen in previous pages is that these panic devices have an inner microswitch. It sends an electric signal that open the door.

Mechanical characteristics are similar that you can see in previous pages.



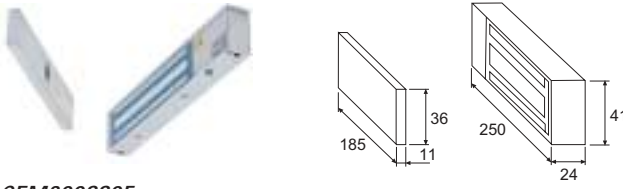
Universal



Tempro

Electromagnetic locks (CEM) **operating**: When the circuit powered, the lock is converted in a electromagnet and when two pieces are join, keep the door close. Ensure resistance to a thrust of up to 1.500 Kg. depend model.

The CEM advantage respect rest of locks is that CEM haven't mobil pieces that may to hold up the opened movement.

		Max. Kg.	Magnetic sensor	Installation
Electromagnetic locks				
 <p><i>CEM300SS0F</i></p>		300	YES	Rim

With emergency devices, we can use the electromechanical locks besides panic devices

Electromechanical locks with roller bolt

Operation:

- Ref. 55036.25: When power turned off, the roller bolt is moved back and leaves the door open.
- Ref. 55038.25: When power turned off, the roller bolt is in strike and leaves the door close. In this case is necessary to use an auxiliary power supply (a battery) to guarantee a correct operation (the door must be active always in a emergency situation).

Features:

- Backset: 25 mm
- Available operation with cylinder.
- Roller bolt: 20 mm (length) and 18 mm (diameter).
- Power supply: 12-24Vdc
- Power consumption:

normally:	250 mA
during start:	3A at 12Vdc
	1,8A at 24Vdc
- Roller bolt position show by inner microswitch.
- Cycles per minute: 10.
- Weigth: 1'3 Kg.



55036.25

55038.25

We are in a hospital, at pharmacy door. It is an emergency exit door because it is the only one door.

Application:

- Labour hours: door is open with free access to hospital people; in case of alarm or fire, the door closes automatically if the door in that

moment is open with a retention mechanism.

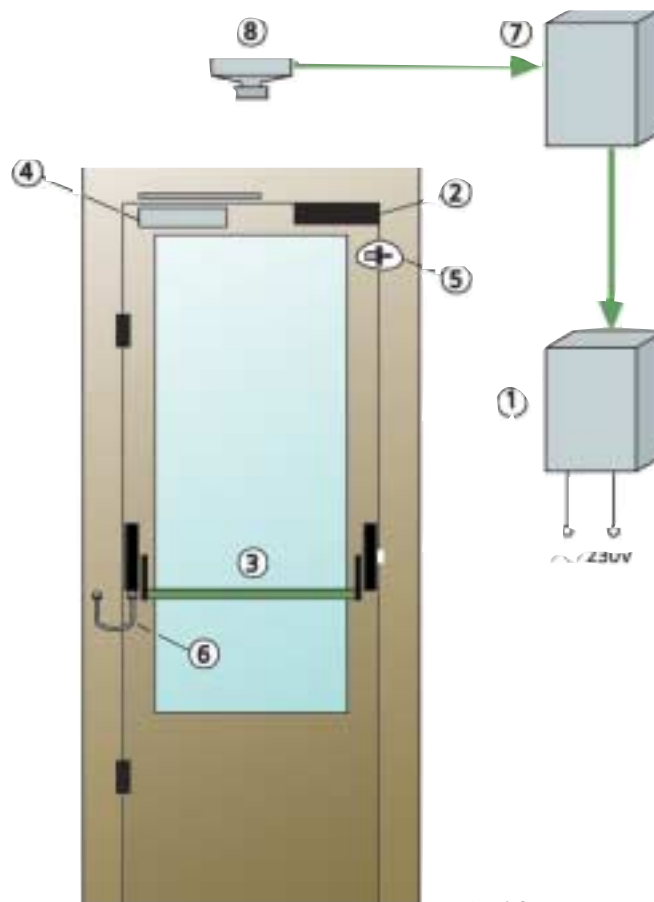
- Restricted hours: access controlled by hospital security staff; the authorized staff can go in only.

Outside:

When we use the correct code, the key pad sends a signal to Control Unit to unblock CEM and open the door.



Outside



Inside

Inside:

1.- Control Unit:

- in case of fire or alarm, the control unit sends a signal to doorcloser to close door.
- it receives the open signal or closed signal from door detector.
- in restricted hours:
 - Control Unit hold on CEM powered for to keep door closed.
 - At the moment panic device is used to go out, Control Unit receives a signal from panic device microswitch and unblocks CEM in a second less.
 - When Control Unit receives the correct access code, unblocks CEM to allow opened the door with outside modular lever handle.

2.-CEM: hold on door closed while receives Control Unit signal.

3.-Panic Device: allow the door opened always, included when CEM is block door in restricted hours.

4.-Doorcloser: hold on door open while is powered by Control Unit.

5.-Door state detector: connected to Control Unit sends information about door state, open or close.

6.-Door loop: allows electrical connection between panic device and Control Unit.

7/8.-Fire detector unit: sends fire alarm from smoke detector to Control Unit, then the Control Unit power off doorcloser electromagnetic retention.