

System of maneuvers for elevators

EKM 64

Listing of mishaps

DESCRIPTION NOT SUBJECT TO REVISION

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INDEX - Listing of mishaps

Code	Denomination	P.
00	FREE	4
01	DAMAGED PROTOCOL	4
02	ERASED PROTOCOL	4
03	ADJUSTED CLOCK	4
04	PROGRAMMING	4
05	I FAIL SYSTEM	4
10	IT DOESN'T START UP	5
11	I WILL BE IN TRIP	5
12	ABRUPT STOP	6
13	TIME OF JOURNEY (IN QUICK)	6
14	TIME OF JOURNEY (IN SLOW)	7
15	TIME OF JOURNEY (IN RENIVELACIÓN)	7
16	I FAIL UNEMPLOYMENT	8
17	IT DOESN'T START UP (ACCORDING TO THE SIS)	8
18	SERIES WHEN OPENING UP	9
20	I FAIL EVENED SIGN	10
21	I FAIL SIGN IMPULSE ASCENT	10
22	I FAIL SIGN IMPULSE SLOPE	11
23	I FAIL SIGN CORRECTION	11
24	I FAIL SIGN SUPERIOR CORRECTION	12
25	I FAIL SIGN INFERIOR CORRECTION	12
26	I FAIL SIGN BOTH CORRECTIONS	13
27	I FAIL SIGN HKU (CORREC. INF. WITH DSE64)	13
28	I FAIL SIGN HKO (CORREC. SUP. WITH DSE64)	14
29	I FAIL SIGN HKI (AREA OF DOOR DSE64)	14
2A	I FAIL BOTH SIGNS HKU+HKO	15
2B	SENSE OF FALSE TURN	15
2C	ANY SIGN OF EVENED	16
2D	I FAIL IMPULSES	16
30	BEGINNING OF SYSTEM	16
31	TRIP OF CORRECTION OF POSITION	17
32	I BLOCK OF CALLS	17
33	IT OVERLOADS	18
34	I BLOCK EXTERNAL CALLS	18
35	IT LOADS COMPLETE	19
36	UNEMPLOYMENT FOR LUMINOUS BARRIER	20
37	EVACUATION	20
38	TRIP OF LEARNING	21
39	REGISTRATION "I STOP"	21
3A	TRIP OF FIREMEN	22
3B	TRAVEL FOR THERMAL UNEMPLOYMENT	22
3C	MISHAP OF DOOR	23
3D	IT DAMAGES PHOTO CELL	24
3E	PERMANENT CELL	25
3F	SIGN PERMANENT OPENING	26

INDEX - Listing of mishaps

Code	Denomination	P.
40	PUSHER PERMANENT OPENING	26
41	ANY FACT OF THE HOLE	27
42	SUSPENDED MOTOR	27
43	I BLOCK OF TRIPS	28
44	CONTROL TIME OF JOURNEY	29
45	SERIES OPEN SK1	29
46	INSPECTION	30
47	RECOVERY	30
48	THERMAL UNEMPLOYMENT	31
49	RENIVELACIÓN DAMAGES	31
4A	SIS DAMAGES	32
4B	UNEMPLOYMENT TEST SIS	33
4C	UNEMPLOYMENT TEST SK2	33
4D	SK0 DAMAGES	34
4E	TRAVEL DAMAGED DESCENT	35
4F	EN81 OVERLOADS	35
50	UNEMPLOYMENT AWM-LIGHT BOOTH	35
51	UNEMPLOYMENT AWM-IT ALARMS ADJUSTED	36
52	UNEMPLOYMENT AWM-PUSHER OPENING	36
53	UNEMPLOYMENT AWM-FAILURE OF SERIES	37
54	SERVICE WITH CURRENT OF EMERGENCY	38

Listing of mishaps

Code	Denomination
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00	FREE
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Description:

This code should not take place.

You cause possible:

The software of the analyzer of the TESIM doesn't have Mishaps.

01	DAMAGED PROTOCOL
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Description:

This registration is not a Mishap.

In all ways it should be kept in mind.

He/she appears when he/she gets lost the orientation in the memory of mishaps and it is restarted again.

Possibly the content of some previous registrations can remain.

You cause possible:

- Several disconnect of the installation
- Condenser by heart faulty
- Strong electromagnetic interferences
- Manipulation in the EKM (for example, change of Eprom)

02	ERASED PROTOCOL
----	-----------------

Description:

This registration is not a Mishap

He/she appears alone for causes storms when they fade the mishaps for the linker.

03	ADJUSTED CLOCK
----	----------------

Description:

This registration is not a mishap.

He/she only appears for causes storms when he/she modifies the internal clock of the EKM.

It should be kept in mind because the registrations happened during the adjustment they won't follow the correct sequence

When this registration appears to keep in mind that the correct order is from the selection.

04	PROGRAMMING
----	-------------

Description:

This registration is not a Mishap.

He/she only appears for causes storms when you acts on the write-protection.

This registration means or attendance of the linker or unknown manipulation.

05	I FAIL SYSTEM
----	---------------

Description:

This registration shows a reboot of the program of the EKM.

Attribute:

He/she can have an I number correlative (identification of the cause).

Possible goods:

- Stop without reason (in trip)
- Orientation trip

You cause possible:

- It damages for very high interferences
- short interruption of the net
- hardware failure
- I fail hidden of program

10 IT DOESN'T START UP

Description:

This registration appears after several outburst intents without success of the EKM.

(Limit: parameter" outburst" intents)

With the closed series the EKM has worked the march orders but the motor doesn't react (the entrance" stopped" Motor this illuminated one).

It is not an outburst intent for Renivelación.

Possible goods:

- Several closing intents in the event of electric cerrojos
- From time to time the doors open up without call before starting up
- From time to time the elevator carries out several outburst intents
- From time to time the elevator after several intents erases the calls
- According to the cause: Agolpamiento in a stop or not

You cause possible:

- Failure of bolts in the event of electric (they are behind SK2 in the safe-deposit series)
- False connection between the exit of control of the EKM and the motor
- False connection in the circuit" stopped" motor (when the elevator really moves)
- False connection between SK2 and the exits of control of the EKM
- Not programmed or faulty the exit releas or the exit of 24V.

Reaction EKM:

The EKM attempts the outburst continually.

These intents frequently are not carried out

You can cause a new intent in a manual way activating a booth call.

11 SERIES IN TRIP

Description:

This registration shows a strong interruption of the safe-deposit series (SK0/SK1/SK2) or the appearance of" stopped" motor during the trip.

Possible goods:

- Stop without reason (during the trip)
- Rising blockade of the elevator p.ejemplo for mishap in variador, variador of frequency, safe-deposit circuits

You cause possible:

- The linker stops the elevator with the opening of a bolt
- If not, it is necessary to revise each contact of the safe-deposit series systematically: - where and what action has happened, when it is not blocked: starting from that contact flaw the series that he/she takes (SK0... SK2) it fails first, (that contact first thistle), in complicated cases to take points of diagnostic additional in the series.

Reaction EKM:

The EKM attempts a new outburst so soon they close the series.

In the event of lingering interruption: Among the floors any door doesn't open up, in the door area you he/she opens the door or closing intents take place, they fade the calls (transmitidas).

Description:

This registration shows an abrupt interruption of a trip. The EKM recognizes a situation in the one that the trip should be concluded immediately. The own cause for the abrupt stop usually appears as previous registration to the stop.

Possible goods:

- Stop without reason (during the trip)
- Rising blockade of the elevator p.ejemplo for mishap in variador, variador of frequency, safe-deposit circuits

You cause possible:

- Interruption of the series (SK0,SK1,SK2)
- Related registrations additionally with "series in trip"
- > To consult the possible causes
- Entrance "Inspection" during a normal trip
- Entrance "Recovery" during a normal trip
- Entrance "trip" Blockade during a normal trip
- Entrance "stopped" Motor during a normal trip
- Entrance "Unemployment for barrier" during a normal trip
- Reaction of some safe-deposit test during the trip (Time of recorrido/Contra test SK0/SK1)

Reaction EKM:

The EKM attempts a new outburst so soon the cause it disappears.

Other behaviors according to the cause:

--> to consult the following registrations.

Description:

This registration shows the control of time of journey during a trip intent with quick march. When the elevator has really moved it is interrupted the trip abruptly.

Attribute": in quick"

Possible goods:

- Stop without reason (during the trip) or the elevator starts up but he/she doesn't move. After the adjusted time the doors open up again.
- It is always typical: I Block of the elevator with indication of "Control traveled" Time

You cause possible:

- When the trip takes place but it is interrupted:
- > I fail in the copying one, the elevator doesn't recognize the movement, non connected originator of impulses or faulty (with DSE64) or entrance of faulty or not programmed impulsos (hole traditional) or time of very scarce adjusted journey
- When the trip doesn't take place:
- > I fail in the control of the motor or in the same motor:
- The entrance "stopped" motor and (in their case) the entrance "control motor" has also reacted on the marcha,es order to say, they are without tension.
- But the exit in the motor has not been complete or the motor has not reacted.
- + Search Mishaps: repetition intent, precise diagnosis, possibly improvement of the "control of motor"

Reaction EKM:

The EKM should not put on for itself in service after the recognition of the mishap.

An elevator with descent trip attempts a reshipment to plant it lowers and it remains there.

New outburst for the linker with:

- Inspección/Recuperación and ascent or slope, reset pusher (in their case), disconnect and connection of main switch or programming bridge shortly open and closed.

Description:

This registration shows the control of time of journey during a trip intent with slow march.
When the elevator has really moved it is interrupted the trip abruptly.

Attribute": in slow"

Possible goods:

- Stop without reason (during the trip)
 - Elevator starts up for a trip (short) that he/she is carried out with slow speed but he/she doesn't move.
- Trascurrido the time the doors open up again:
- Rising blockade of the elevator with indication of" Control traveled" Time

You cause possible:

- When the trip takes place but it is interrupted:
- > I fail in the copying one, the elevator doesn't recognize the movement
+ originator of impulses not connected or faulty (with DSE64)
+ or entrance of faulty or not programmed impulsos (traditional hole)
--> or time of very scarce adjusted journey.
- When the trip doesn't take place:
- > I fail in the control of the motor or in the same motor:
The entrance" stopped" motor and (in their case) the entrance" control motor" has also reacted on the march order, that is to say, they are without tension.
But the exit in the motor has not been complete or the motor has not reacted.
+ Search mishaps: repetition intent, precise diagnosis, possibly improvement of the" control of motor"

Reaction EKM:

The EKM should not put on for itself in service after the recognition of the mishap.
An elevator with descent trip attempts a reshipment to plant it lowers and it remains there.
New outburst for the linker with:

- Inspección/Recuperación and ascent or slope, reset pusher (in their case), disconnect and connection of main switch, programming bridge shortly open and closed

Description:

This registration shows the control of the time of journey during an intent of Renivelación

Attribute": in Renivelación"

Possible goods:

- The elevator a Renivelación begins but he/she doesn't move
- Trascurrido the time remains stopped with open doors.
- rising blockade of the elevator with indication of" Control traveled" Time

You cause possible:

- > I fail in the control of the motor or in the same motor:
The entrance" stopped" motor and (in their case) the entrance" control motor" has also reacted on the march order, that is to say, they are without tension.
But the exit in the motor has not been complete or the motor has not reacted.
+ Search damages: I attempt repetition, precise diagnosis, possibly improves" motor" control

Reaction EKM:

The EKM should not put on for itself in service after the recognition of the mishap.
An elevator with descent trip attempts a reshipment to plant it lowers and it remains there.
New outburst for the linker with:

- Inspección/Recuperación and ascent or slope, reset pusher (in their case), disconnect and connection of main switch or programming bridge shortly open and closed

Description:

This registration shows the position of the Mishap among the plants after a stop. Possibly it shows a previous registration, an adequate cause (p. and. "series in trip").

In this case this registration is insignificant.

If this it is not the case, the registration it indicates a figure of the position of the problem.

Attribute:

Additional" information: too high" or" too low"

Possible goods:

When there are previous causes:

--> to consult them

Without previous causes:

- Frequent stops in a false position, door opening in a false position generating, for so much, another new failure or any door opening after a stop.
- Or: continuous correction trips to the following stop or blockade of the elevator because of:

You cause possible:

When there are previous causes:

--> to consult them

When there are not recognizable causes:

--> I fail in copying, motor or control of the motor

- Problems of the working:
- Distance of very short deceleración
- The control acts very late or with little adherence
- Little tension of cables
- Problems with special counterbalances
- Very demanding regulation (very short slip tolerance)
- I fail in the copying of hole (maybe as consequence of a very short deceleración or one false information of having evened)
- I fail of the encoder
- I fail of the magnetic switches
- Programming failure (in the DSE64)

Reaction EKM:

The EKM attempts a new outburst so soon the problem it is solved. In case that nobody one activates call automatically moves to the following floor.

Description:

This registration shows several fruitless intents of renivelación of the EKM with the open door.

(Limit: parameter" outburst" intents)

For an outburst with success is necessary a puenteo on the open safe-deposit series (among SK1 and SK2). This is carried out with a capable system of functions with the help of the circuit SIS, when you they control the exits of of control.

Possible goods:

- The elevator carries out several outburst intents from time to time with open doors
- A superior level is not regulated in a flowing way
- Later they close the doors and they open up after a process of Renivelación again
- From time to time they fade the calls after bankrupt intents
- According to the cause: agolpamiento in a stop or not
- When the cause is not the SIS: failure" appears it doesn't start up"

You cause possible:

- Connection failure in the SIS (between SK1 and exits control of the EKM)
- I fail of the copying of hole (the elevator doesn't stop in the door area)
- Failure-area-SIS (Any active area or it lacks area tension)
- Connection failure between exits control of the EKM and the motor
- Reles of control exits or exit of 24V without programming or faulty

Reaction EKM:

The EKM attempts for if same the outburst continually until surpassing the one it limits of" intents of start up."

Then it is supposed an inadequate work of the SIS and so single Renivelación with closed doors.

The following behavior belongs together with the generic behavior of" it doesn't start up":

The outburst intents will always be scarce.

You can cause a new outburst intent manually with booth calls.

18

SERIES WHEN OPENING UP

Description:

This registration indicates an abrupt interruption of the seguridad series (SK1/SK2/SK0) or I eat reaction of" stopped" motor during the trip with open doors.

For the next trips with an open door is precise puentear on the open series (among SK1 and SK2) with the help of the circuit SIS.

Otherwise an abrupt interruption of the trip takes place.

Possible goods:

- Abrupt stop until the point of the door opening
- I block for successive shortcomings (p.e. I fail variador) or later correction with Renivelación (in first place: opening, without being gotten: closed)

You cause possible:

You cause but probable:

--> derivation SIS (bridge) it doesn't act

- Very scarce adjusted area switch (DSE64)

- I fail of the copying one: false position of having evened (DSE64) p.e. for lack of signs, encoder failure, of programming

- It lacks an area SIS (an unemployment should happen for the SIS)

- Commutation failure in a brunch of deviation of the SIS

- The door opening takes place very quick for the time of the SIS (to increase the parameter" retard of opening")

It is possible that, accidentally, a normal unemployment take place in that moment for" Series in trip" then:

- Mainly, each contact of the series can be the systematic cause of the Mishap:
- If continuous blocked: starting from that contact flaw the safe-deposit series
- What he/she takes (SK0... SK2) it fails first (what contact he/she opens up first)
- In difficult cases to take additional points of diagnosis in the safe-deposit series

Reaction EKM:

After the elimination of the eventual happened problems (p.e. Open SK1) the EKM attempts in first place (when this fitting) renivelar several times.

Lapsed the" outburst" intents attempted it with the closed doors.

If it is not solved - > it ends in door Mishap.

An elevator without Renivelación remains stopped until the following call.

Description:

This registration refers to a sign of the copying one that in the situation in question should not be had produced.

The copying one follows a sequence of serial signs.

The failure is or a false sequence or the absence of the corresponding sign.

Attribute:

"incorrect" - it is expected impulse or correction

Possible goods:

- Any position is not indicated
- Soft stop or I stop in the following one stopped or also (temporized) in any place outside of level without opening doors
- Orientation trip (according to position p.e. to inferior stop)

You cause possible:

- Incorrect reaction of the hole signs
- Absence of the previous signs
- Court of tension in the feeding (the sign disappears and he/she appears without reason)
- Movement of the elevator without march emission

Reaction EKM:

When there is not a dangerous vicinity with the ends:

- > deceleración controlled storm (Unemployment-Soft)

When it is possible it reaches the following one evened, but abrupt unemployment

Anyway autonomous beginning of an orientation trip and turn to the normal service.

Description:

This registration refers to a sign of the copying one that in the situation in question should not be had produced.

The copying one follows a sequence of serial signs.

The failure is or a false sequence or the absence of the corresponding sign.

Attribute:

"incorrect" - it is expected evened

- in area of superior correction

"too many" - the posicional counts above the last stop

Possible goods:

- Any position is not indicated
- Soft stop or I stop in the following one stopped or also (temporized) in any place outside of level without opening doors
- Orientation trip (according to position p.e. to inferior stop)

You cause possible:

- Incorrect reaction of the hole signs
- Absence of the previous signs
- Court of tension in the feeding (the sign disappears and he/she appears without reason)
- Movement of the elevator without march emission

Reaction EKM:

When there is not a dangerous proximidad with the ends:

- > deceleración controlled storm (Unemployment-Soft)

When it is possible it reaches the following one evened, but abrupt unemployment

Anyway autonomous beginning of an orientation trip and turn to the normal service.

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- Incorrect reaction of the hole signs

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- Movement of the elevator without march emission

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When there is not a dangerous proximidad with the ends:

- > deceleración controlled storm (Unemployment-Soft)

When it is possible it reaches the following one evened, but abrupt unemployment

Anyway autonomous beginning of an orientation trip and turn to the normal service.

Description:

This registration refers to a sign of the copying one that in the situation in question should not be had produced.

The copying one follows a sequence of serial signs.

The failure is or a false sequence or the absence of the corresponding sign.

Attribute:

"incorrect" - sign is expected from having evened

"very soon" - the accountant was not still in the final stop

"in rest" - failure of tension or movement without march order

Possible goods:

- The posicional doesn't indicate he/she swims shortly or during the trip, it jumps to the superior stop or the inferior one

- It stops in the extreme floors without opening doors

You cause possible:

- Incorrect reaction of the hole signs

- Absence of the previous signs

- Court of tension in the feeding (the sign disappears and he/she appears without reason)

- Movement of the elevator without march emission

Reaction EKM:

- Travel normal in the extreme stop.

- He/she doesn't open doors yes, accidentally, there there are not calls

- Continuous in normal service.

Description:

This registration refers to a sign of the copying one that in the situation in question should not be had produced.

The copying one follows a sequence of serial signs.

The failure is or a false sequence or the absence of the corresponding sign.

Attribute:

"incorrect" - sign is expected from having evened

"very soon" - the accountant was not still in the final stop

"in rest" - failure of tension or movement without march order

Possible goods:

- The posicional doesn't indicate he/she swims shortly or during the trip, it jumps to the superior stop or the inferior one
- It stops in the extreme floors without opening doors

You cause possible:

- Incorrect reaction of the hole signs
- Absence of the previous signs
- Court of tension in the feeding (the sign disappears and he/she appears without reason)
- Movement of the elevator without march emission

Reaction EKM:

- Travel normal in the extreme stop.
- He/she doesn't open doors yes, accidentally, there there are not calls
- Continuous in normal service.

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This registration refers to a sign of the copying one that in the situation in question should not be had produced.

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Possible goods:

- The posicional doesn't indicate he/she swims shortly or during the trip, it jumps to the superior stop or the inferior one
- It stops in the extreme floors without opening doors

You cause possible:

- Incorrect reaction of the hole signs
- Absence of the previous signs
- Court of tension in the feeding (the sign disappears and he/she appears without reason)
- Movement of the elevator without march emission

Reaction EKM:

- Travel normal in the extreme stop.
- He/she doesn't open doors yes, accidentally, there there are not calls
- Continuous in normal service.

Description:

This registration indicates the simultaneous presence of the signs of superior and inferior correction. This is completely forbidden in any situation and it causes an abrupt stop during a trip.

Possible goods:

- The posicional doesn't indicate nothing else
- Abrupt stop
- Blocked elevator indicating the display "Any hole"
- Orientation trip after the elimination

You cause possible:

- False reaction of a correction

Reaction EKM:

- Abrupt stop of all movement until the elimination of the defect
- Later, it begins the orientation trip and turn autonomously to the normal service.

Description:

This registration refers to a sign of the copying one that, in the situation in question should not be had produced.

The copying one digital it controls the sequence of the signs with the contaje of the position.

The failure is, or an incorrect sequence of the signs, or a failure when counting the copying one digital. Superior deviations at 150mm are recognized as failure.

Attribute:

he/she "comes very high" - Encoder still had positions superiors (too soon in trip descent)

he/she "comes very low" - Encoder already had counted an inferior position (too much afternoon in trip descent)

he/she "goes very high" - Encoder already had counted a superior position (too much afternoon in trip ascent)

he/she "goes very low" - Encoder still had inferior posiciones (too soon in trip ascent)

Special case:

it "lacks" - the elevator goes to the inferior floor, but HKU lacks.

This registration is a warning: the EKM64 can, sporadically, with fixed sign of HKU to continue traveling.

The following orientation trip, without HKU, it can go until a career end.

Possible goods:

- The posicional doesn't indicate anything but
- Soft stop (temporized with cotrol of the encoder) in any place outside of level without opening doors
- Orientation trip (sense ascent outside of the HKU)

You cause possible:

- Incorrect reaction of the hole signs
- Incorrect measures of the copying one of hole (learning travels)
- Digital inexact mechanics of the copying one
- Faulty Encoder
- I fail of the EKM in the entrance of the encoder
- Not well sized Encoder (too many impulses)

Reaction EKM:

- > Deceleración storm controlled by the position of the encoder (unemployment-Soft)
- Anyway autonomous beginning of an orientation trip and turn to the normal service.

Description:

This registration refers to a sign of the copying one that, in the situation in question should not be had produced.

The copying one digital it controls the sequence of the signs with the contaje of the position.

The failure is, or an incorrect sequence of the signs, or a failure when counting the copying one digital. Superior deviations at 150mm are recognized as failure.

Attribute:

he/she "comes very low" - Encoder still had inferior posiciones (too soon in trip ascent)

he/she "comes very high" - Encoder already had counted a superior position (too much afternoon in trip ascent)

he/she "goes very low" - Encoder already had counted an inferior position (too much afternoon in trip descent)

he/she "goes very high" - Encoder still had superior posiciones (too soon in trip descent)

Special case:

it "lacks" - The elevator goes to the superior floor, but HKO lacks.

This registration is a warning: the EKM64 can, sporadically, with fixed sign of HKO to continue traveling.

The following orientation trip, without HKO, it can go until a career end.

Possible goods:

- The posicional doesn't indicate anything but
- Soft stop (temporized with control of the encoder) in any place outside of level without opening doors
- Orientation trip (sense ascent outside of the HKU)

You cause possible:

- Incorrect reaction of the hole signs
- Incorrect measures of the copying one of hole (learning travels)
- Digital inexact mechanics of the copying one
- Faulty Encoder
- I fail of the EKM in the entrance of the encoder
- Not well sized Encoder (too many impulses)

Reaction EKM:

- > Deceleración storm controlled by the position of the encoder (unemployment-Soft)

Anyway autonomous beginning of an orientation trip and turn to the normal service.

Description:

This registration refers to a sign of the copying one that, in the situation in question should not be had produced.

The copying one digital it controls the sequence of the signs with the contaje of the position.

The failure is, or an incorrect sequence of the signs, or a failure when counting the copying one digital. Superior deviations at 30mm are recognized as failure.

Attribute:

Always "previous" - (alone the previous flanks are measured)

Possible goods:

- Inexact position of the elevator
- Eventual or nonexistent appearance of the defect (to see Reaction EKM). This failure even, without direct visualization, is a sign of problems with the copying one digital of hole.

You cause possible:

- Incorrect sequence of hole signs
- Too near assembly of the encoder (multiple reactions)
- Incorrect measures of the copying one of hole (learning travels)
- Digital inexact mechanics of the copying one
- Faulty Encoder
- I fail of the EKM in the entrance of the encoder
- Not well sized Encoder (too many impulses)
- Unknown manipulation in the HKI (manipulation sign hole)

Reaction EKM:

- With superior deviations at 30mm the EKM ignores the sign HKI and it trusts the position of the one encoder.

This decision, according to the cause, is correct or not, with the corresponding series.

2A I FAIL BOTH SIGNS HKU+HKO

Description:

This registration shows the simultaneous connection of the signs of superior and inferior correction. This is completely forbidden in any situation and it causes a controlled temporary stop.

Possible goods:

- The posicional doesn't indicate anything but
- Deceleración and rising stop (outside of level)
- I block of the elevator with indication " Any hole"
- Orientation trip after disappearance of the cause

You cause possible:

- Incorrect action of one of the correcciones

Reaction EKM:

- Controlled temporary stop (deceleración 2,5s, later stop)
- He/she waits until disappearance of the defect
- Later, I begin autonomous of an orientation trip and turn to the normal service.

2B SENSE OF FALSE TURN

Description:

This registration shows a situation in the one that the elevator, according to the encoder, he/she has moved in the one opposed sense to the address of emitted march (minimum 200mm). This is completely forbidden in any situation and it causes an abrupt stop.

Possible goods:

- Immediate abrupt stop after the outburst
- The posicional doesn't indicate any stop but
- According to the cause, continuous repetition of the failure or setting in march in an autonomous way

You cause possible:

- Incorrect mechanical or electric connection of the encoder - > changed A/B
- The elevator really moves in the incorrect address (poles changed in motor or slip of the cables)

Reaction EKM:

- I stop abrupt with each movement
- Later, I begin autonomous of an orientation trip or a new failure and repetition of the process or turn to the normal service.

2C

ANY SIGN OF EVENED

Description:

This registration indicates an observation of the EKM.

In the transfono they are the "bad habits" of the signs of having evened during the trips in quick in those conventional holes.

This was carried out before, from time to time, for the care of safe-deposit circuits for relés for area of doors.

This service is still possible with the EKM, but it is not recommended.

With a circuit of this type the memory of mishaps is completed completely. This way the one EKM verifies it a single time to the beginning and it eliminates next mishap warnings.

Possible goods:

- None

You cause possible:

- Incorrect connection with having not evened acted,

- > but, without problems

or:

- If there is not deliberate commutation then indication of a temporary failure of the sign of having evened

- > but considering other possible near shortcomings

Reaction EKM:

- None

2D

I FAIL IMPULSES

Description:

This registration refers to a sign of the copying one that, in the situation in question should not be had produced.

The copying one digital it controls the sequence of the signs with the contaje of the position.

The failure is or a false sequence or the absence of the corresponding previous signs.

Possible goods:

- The posicional doesn't indicate nothing else

- Soft stop in the following floor or also (temporized) in any place outside of level without opening up doors

- Orientation trip (according to the position p.e. to the inferior floor)

You cause possible:

- Incorrect sequence of the hole signs

- Absence of the precedent signs

- Interruption of tension of the feeding of the sign (the sign disappears and he/she appears again without I motivate)

- Movement of the elevator without march emission

Reaction EKM:

When there is not a dangerous proximidad with the ends:

- > deceleración controlled storm (Unemployment-Soft) when it is possible it reaches the following one evened,

but abrupt unemployment.

Anyway autonomous beginning of an orientation trip and turn to the normal service.

30

BEGINNING OF SYSTEM

Description:

This registration appears with each connection to net.

In normal situation it doesn't indicate a mishap but an information.

If there is not apparent reason it can be due to an interruption of the feeding or a failure of conexionado.

Possible goods:

- It pauses of system beginning 4s, then typical orientation trip according to the position (p.e. to the stop inferior)
- Indication of the display" system" beginning

You cause possible:

- Normal connection of the net tension
- Fall of tension
- Court of tension in the maneuver square for failure in the circuit
- Extreme interferences that impact in the maneuver

Reaction EKM:

Anyway autonomous beginning of an orientation trip and turn to the normal service.

31 TRIP OF CORRECTION OF POSITION

Description:

A trip of position correction is a general reaction of the EKM for a blocked stop or without evened.

This reaction is protocolized for its clarity.

Interesting it is the precedent cause, to observe if it is of a normal or critical process.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM travels, without call, to the following useful stop.
- The display indicates" Trip of position" correction

You cause possible:

One can think of multiple causes.

The most important information obtains it of the memorized previous registrations of mishaps.

Normal processes:

- Inspection (Final)
- Recovery (Final)

You cause critical (to consult):

- It damages of unemployment
- I fail of some hole sign
- Abrupt stop
- Series failure
- I stop for temperature, etc.

Reaction EKM:

This state causes a turn reaction to normal service.

32 I BLOCK OF CALLS

Description:

The entrance" Blockade of calls" would be activated.

This reaction is protocolized for its clarity.

The state of the blockade can be caused by a deliberate situation or for a failure.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM doesn't assist calls (booth and floors)
- They fade the calls (the calls of floors are distributed in the group)
- Any blockade of special trips (p.e. travel firemen)
- The Display indicates" Blockade of calls"

You cause possible:

- Deliberate activation
- > then Any failure
- Incorrect connection of the entrances (forgotten key, faulty sensor, conexionado failure)
- > then failure

The differentiation is carried out clarifying the registrations according to its beginning and duration.

Reaction EKM:

The EKM acts according to the situation of the entrance" blockade of calls."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

33 IT OVERLOADS

Description:

The entrance" Overloads" it would be activated.

This reaction is protocolized for its clarity.

The overload's state can be caused by a deliberate situation or for a failure.

!! The EKM64 recognizes two different overload entrances

!! with different functions - > to see Overload-EN81.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM doesn't assist calls
- They fade the booth calls
- One doesn't work the calls of floors, for the moment they stay retained
- In the event of groups the calls of floors are passed over, the simple elevators erase the calls external after 2 minutes

- Any blockade of special trips (p.e. travel firemen)

- The Display Overload" indicates"

The load entrance completes it is also contemplated during the march by reasons of compatibility with the EKM16.

In the event of problems of shortcomings of dynamic pesaje it is better to use the new function overload-EN81.

You cause possible:

- Deliberate activation
- > then any failure
- Incorrect connection of the entrances (forgotten key, faulty sensor, conexionado failure)
- > then failure

The differentiation is carried out clarifying the registrations according to its beginning and duration.

Reaction EKM:

The EKM acts according to the situation of the entrance" it overloads."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

34 I BLOCK EXTERNAL CALLS

Description:

The EKM acts according to the situation of the entrance" Blockade external" calls, call" also travels preferable interior."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM assists single booth calls
- They fade the calls of floors (in the event of groups they are passed over)
- With each change of the entrance, connection-disconnect, they will fade all the booth calls.
- In the event of groups the calls of floors are passed over, the simple elevators erase the calls exterior after 2 minutes
- Any blockade of special trips (p.e. travel firemen)
- The Display indicates "external" called Blockade

You cause possible:

- Deliberate activation
- > then Any failure
- Incorrect connection of the entrances (forgotten key, faulty sensor, conexionado failure)
- > then failure

The differentiation is carried out clarifying the registrations by means of its beginning and duration.

Reaction EKM:

The EKM acts according to the situation of the entrance "Blockade external" calls.

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation provoked, later he/she returns to a normal service.

35

IT LOADS COMPLETE

Description:

The EKM acts according to the situation of the entrance "it Loads complete."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The EKM only assists booth calls.
- In the event of groups the calls of floors are passed over, the simple elevators erase the calls external after 2 minutes
- Any blockade of special trips (p.e. travel firemen)
- The Display indicates "complete" Load

The load entrance completes it is also contemplated during the march by reasons of compatibility with the EKM16.

In the event of problems of shortcomings of dynamic pesaje it is better to use the new function overload-EN81.

You cause possible:

- Deliberate Activacin
- > then Any failure
- Incorrect connection of the entrances (forgotten key, faulty sensor, conexionado failure)
- > then failure

The differentiation is carried out clarifying the registrations by means of its beginning and duration.

Reaction EKM:

The EKM acts according to the situation of the entrance "it Loads complete."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

Description:

The entrance "Unemployment for luminous" barrier would be activated.

This reaction is protocolized for its clarity.

The state of the unemployment for luminous barrier can be caused by a deliberate situation or for a failure.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- Abrupt stop of the EKM during the trip
 - They fade the calls (in the event of groups those of floors are passed over)
 - The elevator is restarted with a new booth call (in the address of that call)
 - Externally only you this situation can conclude with network connection, inspection, recovery or with the reset pusher.
 - The display indicates "Unemployment for barrier"
- This entrance intersects in special cases in those that the elevator doesn't have closing of booth door.

You cause possible:

- People remain for mistake in barrier area.
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)
- > then failure

The differentiation takes place when clarifying the registrations by means of its beginning and duration.

Reaction EKM:

The EKM reacts with the entrance "Unemployment for luminous" barrier with a blockade according to normative.

An entrance of booth calls eliminates the blockade.

In extreme cases of emergency you can unblock this state (network connection, inspection, recovery or with the reset pusher).

Description:

The entrance "Evacuation" would be activated.

This reaction is protocolized for its clarity.

The state of evacuation trip can be due to a correct and well-known reason or a failure.

In a combined way to this entrance signs of "Blockade Evacuation" are usually connected and Active "evacuation.

This causes a serial Evacuation (emergency tension).

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The display indicates "Trip evacuation"
 - Display of intermittent position
 - They fade the calls
 - The elevator goes to the stop of scheduled evacuation and it remains there with open doors
 - In their case, with emergency tension, the following elevator is activated
- The state recognizes the active phase of the evacuation trip.
- They are interesting the precedents ("it Pulls up system" or "Service average emergency" and its sequence "trip" Blockade or "Blockade evacuation")

You cause possible:

- Provoked activation
- > then it is not failure
- Incorrect connection of the entrances (faulty Sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of the moment and its duration.

Reaction EKM:

The EKM reacts according to the function "evacuation" with the scheduled trip of evacuation. Those entrances "evacuation" blockade or "trip" Blockade act together with the exit "Evacuation active" and the connection of the evacuation type, in the event of several elevators of a building (not only in group).

If errors take place in the function of the evacuation series they can be due to an overload of tension.

The states are only valid as long as the corresponding entrances are active. Then he/she takes place an automatic turn to the normal state.

38 TRIP OF LEARNING

Description:

The state "learning" Trip will be activated during the setting in march with the copying one digital of hole from the programming.

This state is protocolized by reasons of clarity and I eat protection against undue uses.

The registration doesn't describe a failure but rather it serves as information.

Attribute: - "I Begin" and "Final" (of the state)

39 REGISTRATION "I STOP"

Description:

The entrance "unemployment" is activated.

This state is protocolized by reasons of clarity.

The unemployment state can be due to a correct and well-known reason or a failure.

The unemployment function is the extraneous order of service of the elevator without the danger that one stays

contained person.

The control also remains during the unemployment without tension.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The display indicates "unemployment" typical unemployment algorithms
- Display of intermittent position
- They fade the calls
- The elevator starts up toward the unemployment floor and he/she opens the door there.

Variant of open unemployment:

- The booth light fades after a pause and the elevator remains open and to dark

Variant of standard unemployment:

- The booth light fades after a pause and after another interval he/she closes the door

In all the cases:

- The position display doesn't mark anything
- Every time that you/they pulse in the booth botonera (in any floor or the opening pusher) it causes a new door opening and connection of booth light.

You cause possible:

- Provoked activation
- > then it is not failure
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration.

Reaction EKM:

The EKM reacts with the entrance "unemployment" with the programmed unemployment function.

The state is only valid while the entrance is active, later an automatic turn takes place to the normal service.

3A

TRIP OF FIREMEN

Description:

One of the entrances "Trip of firemen" is activated.

They exist:

- "interior"

- "external"

- "external-1 up to 16"

This state is protocolized by reasons of clarity.

The state of firemen's trip can be due to a correct and well-known reason or a failure.

The trip of firemen has a series of variants according to some countries.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The display indicates "firemen's" Trip

- Display of intermittent position

Typical algorithm of the trip of firemen

1. External effect:

- They fade the calls

- The photo cells are interrupted

- It travels to the main floor of firemen:

in the event of several entrances (warning of smoke) he/she has priority the entrance with the smallest number

- Or continuous in the address or it stops in the following stop without opening doors, to change the one trip sense

- He/she waits passive to the goods of the second phase

- With the varying "Holland" and "China" begins the second phase automatically

2. Phase interior trip of firemen

- effect on the interior "entrance", the external entrance can be activated

- the external calls don't work

- the trips are possible with booth calls

- each state change in the interior entrance erases all the booth calls again

Varying "China" and "Asia":

- Alone movement of doors with opening pusher and door closing, to loose anticipadamentne the one corresponding pusher commutes the door again (sure-fire wall) anyway

it causes the time of stop

You cause possible:

- Provoked activation

- > then there is not failure

- Incorrect connection of the entrances

(Faulty sensor, error of wired, dynamic problems)

- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration..

Reaction EKM:

The EKM reacts to the entrances of "firemen's" trip with the coded function of firemen.

After disappearing all the entrances of firemen he/she begins to run a time of disposition

scheduled (time for commutation of the interior key < - > external), later a turn takes place automatic to the normal state.

3B

TRAVEL FOR THERMAL UNEMPLOYMENT

Description:

One of the two thermal entrances is activated.

Not being coded "immediate" it unchains the trip state next for thermal unemployment.

Attribute: - "I Begin" and "Final" (of the state)

and - the reaction of the entrance-thermal one

Possible goods:

- The display indicates" Trip for thermal" unemployment
- The position display is intermittent
- It travels until the following possible stop, otherwise abrupt interruption before reaching that floor
- The calls and the special trips are suppressed

You cause possible:

- Sobrecalentamiento in the connected element
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)

Reaction EKM:

The EKM tries to take to the elevator, for the cooling of the motor (or of other mechanisms) to the following possible stop for their stop and blockade.

If the elevator is in progress it will continue until the following stop for the time out scheduled of unemployment.

If the elevator reaches an useful stop or the time is surpassed the" abrupt thermal" stop it will continue.

3C MISHAP OF DOOR

Description:

The process of closing of the puerta(s) averiado is.

The closing intents are surpassed programmed without success.

The causes of the door mishap can be of very diverse nature:

* Above all, the doors are considered closed when the sign is recognized in the taking SK2 of the safe-deposit series.

* If this sign remains after the scheduled time of closing it counts like failure the intents of close. (In elevators with two doors one is expected after other until both times of closing they have concluded)

* If in spite of recognizing the sign in SK2, the elevator doesn't start up, (the scheduled intents conclude of closing) it counts the later closing intents as unsuccessful.

Additionally it indicates the registration" it doesn't start up."

* Yes it recognizes a closed career end, the closing intents conclude (inmediatamente or retarded 150ms) and it remains in that door position while waiting for SK2.

* A commutation for the photo cell that happens while the closing intents are active, it is also considered as a bankrupt intent of closing.

Additionally the registration" is signalled it Damages fotocélula."

In all the cases the closing intents are counted and respectively complete cycles begin of door.

Attribute: - " I Begin" and" Final" (of the state)

and - the number of assigned doors (since several doors can be connected in the series of security, this information is not very safe)

Possible goods:

- They close the doors but the elevator doesn't start up
- They open up the doors again and the closing intents continue
- The closing intents take place with less frequency
- The position display this intermittent one
- They fade the calls (in groups, the calls of floors are transferred)
- Each new call causes a new closing intent
- The display indicates" door" Mishap

Additional information:

The frequency of the mishap in a certain stop indicates us the possible failure in a door of it plants.

You cause possible:

- Time of very short door closing (SK2 doesn't appear, or only very little, the door doesn't close of the one everything)
- Problems of series between SK1 and SK2 (SK2 lacks - > to measure step to step, frequently they are adjusting problems of the floor doors)
- Entered closed" adjusted" Final career incorrectly (the door doesn't close completely, SK2 not he/she appears," it Damages photo cell" to consult this Mishap)
- The door control doesn't transmit the order
- Failure of series in the door operator
- Mechanical problem
- Not well adjusted photo cell (it is always interrupted in the event of door closing)
- Problems of the working (SK2 appears but in spite of everything" it doesn't start up" - > to consult)
- Problems of contacts or power line surge in the safe-deposit series (there is sign in SK2 but it disappears when starting up)

Reaction EKM:

The EKM tries to repeat the corresponding two parameters" closing" Intents and" Intents of start up", later, the intents are less frequent for not damaging without necessity the working of doors.

The linker for the solution of the mishap can cause a new intent working a call of booth.

If in some moment the intent is satisfactory the elevator returns to normal service. A trip with success puts the accountant to zero.

3D IT DAMAGES PHOTO CELL

Description:

The process of closing of the doors this damaged by a defect or a wrong adjusts of the cell photoelectric.

The cell this always activates during the trial of closing.

This happens until the number of closing intents is surpassed.

This failure ends in" door" Mishap.

It can be adjusted the" mandatory" closing, then would close the door, starting from the coded intent, without assisting to the photo cell.

Attribute: - " I Begin" and" Final" (of the state)

Possible goods:

- The doors try to close but it commutes another time before reaching the position of closed.
- They open up the doors again and the closing process continues
- The closing intents are less and less frequent
- The position display this intermittent one
- They fade the calls (in groups, the calls of floors are transferred)
- Each new call causes a new closing intent
- The display indicates" Mishap photo cell" and later" door" Mishap.

Attribute:

- The number of assigned doors

Additional information:

The frequency of the mishap in a certain stop indicates us the possible failure in a door of it plants.

You cause possible:

- Not well adjusted photo cell (it is always interrupted in the event of door closing)
- The barrier is interrupted during the times of door and working.
- An active person the recognition of false calls
- Faulty photo cell

Frequently you cannot avoid, in elevators with barrier, an interruption of the working of door for a casual position among the constructive stop, in and of itself the photo cell one can to restrict with the parameter" Válidez photo cell."

Reaction EKM:

The EKM tries to repeat the corresponding two parameters" closing" Intents and" Intents of start up", later, the intents are less frequent for not damaging without necessity the working of doors.

The linker for the solution of the mishap can cause a new intent working a call of booth.

If in some moment the intent is satisfactory the elevator returns to normal service. A trip with success puts the accountant to zero.

3E PERMANENT CELL

Description:

The cell is active permanently. The closing process is impossible. After one minute he/she is reflected this state as a mishap registration.

With the parameter to urge a time can be adjusted after which the door closes (slowly).

Attribute: - " I Begin" and" Final" (of the state)
and - the number of assigned doors

Possible goods:

- The doors remain open after a call
- They fade the calls (in groups, the calls of floors are transferred)
- The position display this intermittent one
- The display indicates" permanent" Cell
- In their case, urgency process with slow speed

Additional information:

The frequency of the mishap in a certain stop indicates us an adjusting problem in relationship with the plant door.

You cause possible:

- Provoked false calls
- Adjusting problems, faulty cell
- I fail of the feeding of the cell (when opening up)
- Luz that interacts or it influences of the contrary side in group

Frequently you cannot avoid, in elevators with barrier, an interruption of the working of door for a casual position among the constructive stop.

In and of itself the photo cell you can restrict with the parameter" Válidez photo cell."

Reaction EKM:

The EKM should only overcome the photo cell in relation to the parameters" Válidez photo cell" and" to be urgent", after disappearing the sign an automatic turn takes place to the normal service.

Description:

According to the takings of the safe-deposit series ("opened" Door floor) one remains as minimum floor door (manual) open.

The booth door (in the event of existing) therefore it cannot close, the elevator cannot start up.

After one minute he/she is reflected this state as a mishap registration.

Attribute: - "I Begin" and "Final" (of the state)

and - the number of assigned doors

The foreseen doors can only be adjusted when each door has an extra final contact additional for the safe-deposit series.

Possible goods:

- The booth doors remain open, also after a call
- They fade the calls (in groups, the calls of floors are transferred)
- The position display this intermittent one
- The display indicates "Sign permanent" opening

Additional information:

The frequency of the mishap in a certain stop indicates us an adjusting problem in relationship with the plant door.

You cause possible:

- Provoked false calls
- Adjusting problems, problem in the contacts
- Habitual connection shortcomings:

The cause resides in the safe-deposit series but there is feeding in SK1.

The sequence of the safe-deposit series doesn't have the correct order:

general against reconexión sure parts

/ SK0 /

general insecure parts

/ SK1 /

floor doors

/ He/she takes for opened floor door / (with opening)

booth doors

acted mechanical cerrojos

/ SK1 /

cerrojos acted eléctricos

Reaction EKM:

The EKM doesn't have influence on the closing of the series in the event of doors of floor manuals.

After disappearing the sign an automatic turn he/she takes place to the normal service.

Description:

The opening pusher is activated permanently. The closing process is impossible. After a minute he/she is reflected this state as a mishap registration.

Attribute: - "I Begin" and "Final" (of the state)

and - the number of assigned doors

Possible goods:

- The booth doors remain open, also after a call
- They fade the calls (in groups, the calls of floors are transferred)
- The position display this intermittent one
- The display indicates "Pusher permanent" opening

You cause possible:

- Provoked false calls
- Defect of the pusher
- Absence of tension in the pusher (when opening up)

Reaction EKM:

The EKM should not be influenced by the pusher of door opening.

After disappearing the sign an automatic turn he/she takes place to the normal service.

41 ANY FACT OF THE HOLE

Description:

The copying of hole cannot work with the existent information. According to the copy process he/she can have different causes.

Anyway it is not possible any normal trip, since these states, during the installation, not they can be avoided, the permission is limited to inspection trips and recovery, after the time of installation registers like an important mishap.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- Eel elevator doesn't travel or only in inspection / recovery.
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- They fade the calls (in groups, the calls of floors are transferred)
- The position display this intermittent one
- The display indicates" Any hole"

You cause possible:

- The superior correcciones and inferior enter at the same time (I process of copy Standard2 and FPK64)
- HKO and HKU enter at the same time (I process of copy DSE64)
- He/she has not memorized the hollow one or only in a partial way (I process of copy DSE64)
- It is incomplete the registration of the list of points of change (I process of copy FPK64)

Reaction EKM:

The EKM cannot travel with that information.

For installation reasons inspection trips should be allowed / recovery. For lack of information this service this limited one (for example trip in inspection with DSE64 only until HKI or well HKO).

The succession of the installation therefore should stop or otherwise to disconnect the detector until the complete installation.

42 SUSPENDED MOTOR

Description:

This mishap registration indicates a serious safe-deposit problem.

The EKM should check, after each trip, if all the march contactores is fallen.

For their control the entrance" stopped" Motor is used.

In this entrance they are connected sequential all the march contactores with open contacts. This entrance only has tension when all the contactores is fallen.

If in rest the entrance doesn't have sign the mishap registration he/she appears and any outburst is impeded of the one elevator.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- They fade the calls (in groups, the calls of floors are transferred)
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- The position display this intermittent one
- The display indicates" suspended" Motor

You cause possible:

- A motor contactor has been" plaster"
- The working of the motor has been" plaster"
- I fail in the connection of the motor (in particular in works with variador)
- Working of the motor without the maneuver (by hand or sent externally)
- I fail of contact or low tension in the connection of the entrance" stopped" Motor

Reaction EKM:

The EKM should avoid each new outburst of the elevator, because the function of the safe-deposit series in the motor they are not guaranteed.

When the sign" stopped" Motor is recognized again, the EKM returns automatically to service normal.

43

I BLOCK OF TRIPS

Description:

This registration is indicated with each recognition of the entrance" Blockade of trips." In normal case not it is a mishap but an information.

A" inexplicable Blockade of trips" can nevertheless, to be due to problems like shortcomings of connection or courts of tension.

The entrance is used in diverse connections like absolute blockade for each trip. During the trip it should not be active. In this case an immediate stop takes place.

Attribute: - " I Begin" and" Final" (of the state)

Possible goods:

- Possibly an immediate stop of the elevator
- They fade the calls (in groups, the calls of floors are transferred)
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- The position display this intermittent one
- The display indicates" Blockade of trips"

You cause possible:

- Provoked activation
- > then it is not failure
- Incorrect connection of the entrances (faulty Sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration.

To avoid the danger of an action of the mishap (mainly in trip), it is used, in the event of evacuation in chain, the entrance inoffensive" evacuation" Blockade.

Reaction EKM:

The EKM reacts with the entrance connected" Blockade of trips."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

Description:

This registration indicates the end of the state "Control time of journey." After the performance of the control

time of journey (possible in one of the quick 3 main speeds / slow or renivelación) the one elevator should not return to the normal service.

The resolution of this state registers as " (Final) Control time of journey."

Attribute: -" Final"

Possible goods (of the Control time of journey):

- Stop without reason (in the middle of trip)

or:

- The elevator starts up but he/she doesn't move, when concluding the time of journey they open up those again

doors always typical:

- Rising blockade of the elevator with indication "Control time of journey."

He/she appears "Final traveled" time:

The elevator returns to the normal service after some of the following stocks.

- Inspección/Recuperación and shortly ascent or slope

or - reset Pusher (in the event of existing)

or - to Disconnect and to connect main tension

or - to Open up and close the programming jumper again

You cause possible:

- To consult in the event of time of journey in quick / slow or renivelación

Reaction EKM:

The EKM should not return automatically to the normal service after the recognition of the mishap.

An elevator in descent trip tries to conclude him and it remains stopped.

New outburst for the technician with some of the previous measures.

Description:

This registration indicates a sign failure in the taking SK1 of the safe-deposit series.

The series only contains before the SK1 contacts that, independently of the position of doors they should always be closed (final, unemployment emergency, damages variador, parachute, slack cables,...).

In the event of inspection and recovery will close the I circulate when working one of the addresses.

In and of itself the recognition of open SK1 is suppressed during inspection and recovery.

The registration of the mishap only takes place after a clear interruption (more than 2 seg.).

If it happens the problem in trip they will be signalled the mishaps "Series previously in trip" and "Stop abrupt."

Attribute: -" I Begin" and " Final" (of the state)

Possible goods:

- Possibly an immediate stop of the elevator

- They fade the calls (in groups, the calls of floors are transferred)

- The elevator this stopped one with open doors

- The booth doors remain open, also after a call

- The position display this intermittent one

- The display indicates "Series (SK1) open"

You cause possible:

All the elements that are before the taking SK1 according to the outline.

Systematic search of the mishap:

- Where and in what action it happens

- When it is blocked: starting from that contact flaw the safe-deposit series

- In complex cases to take points of diagnostic additional.

Reaction EKM:

The EKM attempts a new outburst so soon the sign of the series it is correct.
The calls are erased (or transferred).

INSPECTION

Description:

This registration is indicated with each recognition of the entrance " Inspection ON" (or EKM16-E6).
In normal case it is not a mishap but an information.
An inexplicable inspection can nevertheless, to be due to problems like connection shortcomings or courts of tension.
The registration of the mishap only takes place after a minimum duration of 0,2 seg.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- Possibly an immediate stop of the elevator
- They fade the calls (in groups, the calls of floors are transferred)
- The doors don't move, also after a call
- The position display this intermittent one
- The display indicates" Inspection"

You cause possible:

- Provoked activation
- > Then it is not failure
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration.

In old outlines the inspección/recuperación was only recognized with the fall of the contactores of inspección/recuperación.

In and of itself in these connections he/she registers shortcomings of SK1 like inspección/recuperación incorrectly.

Reaction EKM:

The EKM reacts with the entrance connected" Inspection."

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation provoked, later he/she returns to a normal service.

The EKM64 doesn't carry out, after the inspection, any orientation trip but rather it travels to the stop next more favorable. If it has been manipulated in the copying of hole a new trip it is recommended of situation.

47

RECOVERY

Description:

This registration is indicated with each recognition of the entrance" Recovery ON" (or EKM16-E6+E8). In normal case it is not a mishap but an information.

An inexplicable recovery nevertheless can be due to problems like connection shortcomings or courts of tension.

The registration of the mishap only takes place after a minimum duration of 0,2 seg.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- Possibly an immediate stop of the elevator
- They fade the calls (in groups, the calls of floors are transferred)
- The doors don't move, also after a call
- The position display this intermittent one
- The display indicates" Recovery"

You cause possible:

- Provoked activation
- > then it is not failure
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration. In old outlines the inspección/recuperación was only recognized with the fall of the contactores of inspección/recuperación. In and of itself in these connections he/she registers shortcomings of SK1 incorrectly like inspección/recuperación, their beginning and their duration..

Reaction EKM:

The EKM reacts with the connected entrance of Recovery.

It is not possible the differentiation for the EKM of if the state is due to a mishap or a situation Provoked, later he/she returns to a normal service.

The EKM64 doesn't carry out, after the recovery, any orientation trip but rather it travels to the stop next more favorable. If it has been manipulated in the copying of hole a new trip it is recommended of situation.

48 THERMAL UNEMPLOYMENT

Description:

One of the two thermal entrances is activated.

In an eventual way he/she takes place, in the first place, an interruption of the current trip and a trip for unemployment thermal to the next favorable stop (when it has programmed a thermal rest period).

Attribute: -" I Begin" and" Final" (of the state)
and - of the reaction of the thermal entrance

Possible goods:

- Possibly it precedes trip thermal unemployment with trip to the favorable next stop and in their case abrupt stop before reaching that stop - > (to consult)
- then:
- The display indicates" thermal" Unemployment
 - Indicator of intermittent position
 - Calls and special trips are interrupted

You cause possible:

- Sobrecaentamiento of the connected team
- Incorrect connection of the entrances (faulty sensor, error of wired, dynamic problems)

Reaction EKM:

The EKM blocks the elevator until the cooling of the motor (or of the connected team).

The doors open up, they fade the calls or they are transferred. After disappearing the sign in the entrance takes place an automatic turn to the normal service.

49 RENIVELACIÓN DAMAGES

Description:

This entrance is indicated when the renivelación process remains oscillating among the posicioneses "very deep" and" very high." Without this additional function and since the motor warms, those facilities would oscillate in a critical way until their overload or their mishap.

In service of calls this mishap is recognized after 20 serial useless intents of renivelación. If a requirement of trip of more priority exists (for example firemen), they have preference after 4 serial useless intents.

The recognition pursues the end:

- To protocolize the mishap
 - Not to block important trip ranks for useless oscillations
 - Not to put in danger the working capacity of the system of
- Correction for an overload of the motor because of a permanent oscillation without interruption (it overloads thermal or" problems of it greases")

Attribute: - " I Begin" and" Final" (of the state)

Possible goods:

- The elevator oscillates on the position of having evened (20 intents)
- After 10 minutes" it Pauses oscillation" (both states are exchanged)
- The display indicates" Mishap renivelación"
- Complete trip disposition for calls and special trips.

You cause possible:

- Scarce accuracy of adjusted renivelación
- Posicionamiento problems in the motor (for very bad)
- I fail in the copying of hole (renivelación accuracy is recognized very scarcely)

Reaction EKM:

The EKM stops the elevator totally for the service.

Even when the renivelación process this fitting has preference the important trips after 4 bankrupt intents.

A situation of danger, because of a motor failure, is avoided with" Pause oscillation."

An only posicionamiento trip returns the oscillation bill to normal service.

4A SIS DAMAGES

Description:

This registration appears when the EKM recognizes that the necessary safe-deposit circuit doesn't act for a trip with open doors.

Interesting it is the case, when the safe-deposit circuit doesn't recognize any failure, that is to say the elevator

it is not outside of service, but the necessary commutation of the doors, it doesn't work in the circuit safe-deposit.

In this case it is protocolized this failure and the EKM he/she tries to avoid the problem closing doors.

Attribute: - " I Begin" and" Final" (of the state)

Possible goods:

- Possibly it precedes a" abrupt" Stop or" Series in trip" (with premature opening of doors)
- The elevator attempts without success renivelar the quantity of" outburst" intents adjusted with doors open.

then:

- The display indicates" Mishap SIS"
- The elevator carries out the outburst intents now with closed doors
- Total disposition for calls and special trips

You cause possible:

- Area of wider scheduled door that the area in the SIS (with DSE64 and premature opening)
- I fail in the safe-deposit circuit for the puenteo of the door contacts
- I fail in the copying of hole (indication of door area too soon)

If the following outburst intents neither are successful then the cause is not the SIS but rather the it causes it would be in the first bankrupt intent.

Then to consult the failure" for example doesn't start up."

Reaction EKM:

The EKM tries to happen, of the not solved problem of renivelar with open door, to renivelar with closed door. With this additional function the service of the elevator should be solved and in particular the descending control. If this measure is not successful, then the EKM tries to prove all the possible one. The elevator remains totally in service until other shortcomings are recognized (for example door" "mishap).

Each trip with success places the bill of outburst intents to its normal state.

4B

UNEMPLOYMENT TEST SIS

Description:

The function SIS (for trips with premature opening) it can be carried out with a mixed solution Hardware-software, for they take it 2 relés and two independent switches of door area the deviation of the safe-deposit circuit.

The contratest and the setting outside of service with the first failure the EKM carries out it.

!!! This function not this admitted one for the area IN

!!! (still) (03/2000)

The mishap registration is indicated when an extraneous setting of service takes place in the SIS for a failure.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- You the last trip concludes
- They fade the calls (in groups, the calls of floors are transferred)
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- The position display this intermittent one
- The display indicates" Unemployment-test SIS"

You cause possible:

- Area of wider scheduled door that the area in the SIS (with DSE64 and premature opening)
- I fail in the safe-deposit circuit for the puenteo of the door contacts
- I fail in the copying of hole (indication of door area too soon)

If the following outburst intents neither are successful then the cause is not the SIS but rather the it causes it would be in the first bankrupt intent.

Then to consult the failure" for example doesn't start up."

Reaction EKM:

The EKM should not return automatically to the normal service after the recognition of this mishap.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

4C

UNEMPLOYMENT TEST SK2

Description:

The EKM is sized on the base of series of 240V AC.

The series are sometimes carried out on the base of other tensions (for example 110V AD).

The transformation of this tension to 240V AC is recommended to carry out it on the base of 2 relés independent. The EKM offers a function, to control both relés reciprocally and in the event of you damage simple to stop the installation.

!!! This function not this admitted one for the area IN

!!! (still) (03/2000)

The mishap registration is indicated when an extraneous setting of service takes place by reason of those 2 relés.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- You the last trip concludes
- They fade the calls (in groups, the calls of floors are transferred)
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- The position display this intermittent one
- The display indicates" Unemployment-test SK2"

You cause possible:

- I fail of contact or of circuit in the transformation of the safe-deposit series
- I fail in the entrance of control of the EKM-SK2

Reaction EKM:

The EKM should not return automatically to the service normal tras the recognition of this mishap.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

4D SK0 DAMAGES

Description:

This registration indicates a failure of the sign in the taking SK0 of the safe-deposit series.

The taking SK0 always divides the "closed" part of the safe-deposit series (before the SK1).

The contacts that, they are willing before the SK0 they will be assured against reconexiones (main I use it is that of the career ends according to EN81).

In simple facilities also you SK1 can program for that function. In this case they are suppressed the additional takings of the safe-deposit series.

For this second variant the recognition is suppressed during the inspection and recovery.

The mishap registration and the rising blockade are only indicated during a clear interruption (bigger that 0,5 seg.).

If the problem happens in trip they are indicated the intermittent registrations of "Series previously in trip" and

Abrupt "stop.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- Possibly stopped abrupt of the elevator
- They fade the calls (in groups, the calls of floors are transferred)
- Special trips are blocked
- The elevator this stopped one with open doors
- The booth doors remain open, also after a call
- Elevators in trip of hydraulic descent finish the trip and they remain stopped there
- The renivelación remains active
- The display indicates "Mishap SK0"

You cause possible:

All the elements that are before the taking SK0 according to the outline.

Systematic search of the mishap:

- Where and in what action it happens
- When it is blocked: starting from that contact flaw the safe-deposit series
- In complex cases to take points of diagnostic additional.

Reaction EKM:

The EKM should avoid, according to IN, a reconexión of the installation. The trip of hydraulic descent and the renivelación stays.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

4E TRAVEL DAMAGED DESCENT

Description:

The state "Travels damaged" descent he/she incorporates to the states of mishap Control of time of journey" or "SK0" Damages, and he/she allows to carry out a descent trip to the inferior floor. Then he/she stops in the inferior stop with the well-known mishaps. The registration doesn't describe a mishap but a reaction to a well-known mishap and it only serves as information.

Attribute: -" I Begin" and" Final" (of the state)

4F EN81 OVERLOADS

Description:

The entrance" is activated EN81" it Overloads.

This reaction is protocolized for its clarity.

The overload's state can be caused by a deliberate situation or for a failure.

!! The EKM64 recognizes two different overload entrances

!! with different functions - > to see Overload (classic).

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM doesn't assist to calls
- They fade the booth calls
- One doesn't work the calls of floors, but these remain
- The elevators in group transfer the calls of floors, the simple elevators erase those calls of floors tras 2 minutes.
- The special trips are blocked (firemen, etc.)
- Renivelación, descent trips (hydraulic) and inspección/recuperación remains active.
- The display Overload indicates" EN81"

This function is based exactly on the norm EN81.

It is ignored during the trip and for resolutions inferior to 1 second (to suppress pesaje failure dynamic).

You cause possible:

- Provoked activation
- > then it is not failure
- Incorrect connection of the entrances (faulty Sensor, error of wired, dynamic problems)
- > then failure

The distinction is carried out clarifying the registrations by means of its beginning and its duration..

Reaction EKM:

The EKM acts according to the corresponding entrance" EN81" it Overloads.

Descent trips (hydraulic) and renivelación remains active.

In the event of suppression of the signs an automatic turn takes place to the normal state.

50 UNEMPLOYMENT AWM-LIGHT BOOTH

Description:

This alone function takes place in EKM with programmed internal function AWM-(=Módulo of surveillance).

In connection with the function autotest of the module of surveillance, an elevator with booth light faulty debit side to stop.

For the moment this function in the version current TESIM is not described.

The process is protocolized as mishap state.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM doesn't assist to calls or special trips
- They fade the booth calls (transferred)
- Renivelación, descent trips (hydraulic) and inspección/recuperación remains active.
- The display AWM indicates": booth" light

The functions of the entrances belong together with the norms TRA007 and the corresponding ones interpretations DAA.

You cause possible:

- I fail of the booth light
- Erroneous connection of the entrances (faulty sensor, conexionado failure)

Reaction EKM:

The EKM should avoid a reconexión of the installation according to the function of the module of surveillance.

Renivelación and descent trips (hydraulic) they remain active.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

51 UNEMPLOYMENT AWM-IT ALARMS ADJUSTED

Description:

This function only takes place in EKM with programmed internal function AWM-(=Módulo of surveillance).

In connection with the function autotest of the module of surveillance, an elevator with booth light faulty debit side to stop.

For the moment this function in the version current TESIM is not described.

The process is protocolized as mishap state.

Attribute: -" I Begin" and" Final" (of the state)

Possible goods:

- The EKM doesn't assist to calls or special trips
- They fade the booth calls (transferred)
- Renivelación, descent trips (hydraulic) and inspección/recuperación remains active.
- The display adjusted" AWM:alarma indicates"

The functions of the entrances belong together with the norms TRA007 and the corresponding ones interpretations DAA.

Reaction EKM:

The EKM should avoid a reconexión of the installation according to the function of the module of surveillance.

Renivelación and descent trips (hydraulic) they remain active.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

52 UNEMPLOYMENT AWM-PUSHER OPENING

Description:

This function only takes place in EKM with programmed internal function AWM-(=Módulo of surveillance).

In connection with the function autotest of the module of surveillance, an elevator with booth light faulty debit side to stop.

For the moment this function in the version current TESIM is not described.

The process is protocolized as mishap state.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The EKM doesn't assist to calls or special trips
- They fade the booth calls (transferred)
- Renivelación, descent trips (hydraulic) and inspección/recuperación remains active.
- The display AWM indicates": booth" light

The functions of the entrances belong together with the norms TRA007 and the corresponding ones interpretations DAA.

You cause possible:

- I fail of the pusher of door opening
- Erroneous connection of the entrances

Reaction EKM:

The EKM should avoid a reconexión of the installation according to the function of the module of surveillance.

Renivelación and descent trips (hydraulic) they remain active.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

53

UNEMPLOYMENT AWM-FAILURE OF SERIES

Description:

This alone function takes place in EKM with programmed internal function AWM-(=Módulo of surveillance).

In connection with the function autotest of the module of surveillance, an elevator with booth light faulty debit side to stop.

For the moment this function in the version current TESIM is not described.

The process is protocolized as mishap state.

Attribute: - "I Begin" and "Final" (of the state)

Possible goods:

- The EKM doesn't assist to calls or special trips
- They fade the booth calls (transferred)
- Renivelación, descent trips (hydraulic) and inspección/recuperación remains active.
- The display AWM:pulsador opening" indicates"

The functions of the entrances belong together with the norms TRA007 and the corresponding ones interpretations DAA.

You cause possible:

- They have forgotten bridges in the safe-deposit series
- Conexionado failure
- Faulty contacts in the series

Reaction EKM:

The EKM should avoid a reconexión of the installation according to the function of the module of surveillance.

Renivelación and descent trips (hydraulic) they remain active.

New outburst for the technician with:

- Inspección/Recuperación and shortly ascent or slope
- or - reset Pusher (in the event of existing)
- or - to Disconnect and to connect main tension
- or - to Open up and to close the programming jumper shortly

For the moment this function in the version current TESIM is not described.