



MAINTENANCE MANUAL

Rev.03 Update 26/06/2018

Per informazioni:

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Via Franco Modigliani, 22

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One level ahead.

UPDINAMIC S.r.l.

Via Modigliani, 22

37045 - LEGNAGO(VR)

MAINTENANCE MANUAL GOODS LIFT UP:

(machine for transporting goods only or goods with an operator)

- UP 3 - 6
- UP 10 - 15
- UP 20 - 25
- UP 25 DEC

SERIAL NUMBER

THE OWNER MUST KEEP THIS MANUAL AND THE ATTACHMENTS LISTED BELOW IN THE OWNER'S

UTILITY SHAFT:

MACHINE MANUAL

USER MANUAL

ELECTRICAL PART MANUAL

INSTALLATION MANUAL

OBLIGATIONS OF THE OWNER

For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding a:

**qualification certificate (LETTER "F")
issued by the prefecture.**

It should also be specified that Art. 12 of Pres. Decree 162/99 lays down that the competent municipality has to be notified when putting car lifts and goods lifts into private service, indicating, amongst other things, the qualified company the owner has appointed to carry out system maintenance in accordance with Law 46 of 5 March 1990 [now Min. Decree 37/08]. Therefore, it must be concluded that the company that carries out extraordinary maintenance of the lift systems must also have the requirements according to Min. Decree 37/08.

The system CE certificate will be handed to the customer after the installer has sent the completed checklist to UpDinamic.



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DEFINITIONS

MACHINE DEFINITIONS AND COMPONENTS

Refer to the EN 292, EN 81-1, EN 81-2, EN81-3, prEN 81-41, EN81-28 standards for the definitions of the terms used in this manual as well as the following definitions.

Maintenance:

All operations necessary to ensure safe operation according to the intended use of the system and its components after installation is complete and for its entire life cycle.

Maintenance includes:

- lubrication, cleaning, etc. (except for the external parts of the lift shaft and internal cleaning of the inside of the cabin).
- checks;
- driver rescue operations (only for lifts with SPB system);
- calibration and adjustment operations;
- repairs or replacements of components, which may be due to wear or failure, but do not alter the system characteristics.

The following are not to be considered maintenance operations:

- replacement of the main components, such as duct, roof, cabin, control panel, etc.,
- system replacement,
- system modernization, including modification of any system features (e.g. speed, travel, capacity, dimensions, etc.)
- Rescue operations are carried out by the fire brigade.

Maintenance organisation:

A company or part of a company whose maintenance technicians carry out maintenance operations on behalf of the system owner.

Qualified maintenance technician:

A qualified and trained person (see EN ISO 9000) assigned to carry out maintenance, who has practical knowledge and experience, is given the necessary instructions and is supported by the maintenance organisation so that the required maintenance operations can be carried out in safety.

Manufacturer:

A person or legal entity who assumes the responsibility for designing, constructing and marketing both safety components for the goods lift and the machine.

Installer:

A person or legal entity who assumes the responsibility for installing goods lift systems for things only and car lift systems with and without driver on board.



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System:

Goods lift suitable for transport of only completely installed items.

System owner:

A person or legal entity who is empowered to be in charge of the system and the responsibility for its use and operation.

Emergency:

This is an abnormal situation in which the goods lift is in a potentially hazardous condition for persons and things.

Fault:

A situation in which safe use of the platform for the intended use is limited or impossible.

Repair:

Replacement or repair of defective and/or worn components.

Notified Body:

An organisation that has been accredited by a Member State to assess whether a product to be placed on the market meets certain preordained standards and ensures that the procedures for putting systems into service and their surveillance are followed in accordance with the Machinery Directive.

MACHINE DEFINITIONS

Goods lift:

lift system for things only

Platform:

Mobile part for receiving the load to be transported.

Utility shaft:

A section outside the lift shaft in which the electric panel and the hydraulic control unit are housed.

SPB system:

A system that allows safe movement of the car lift with the driver on board equipped with all the features necessary for emergency situations.

SDE system:

A system for car lift descent to the lower level even in the event of a power failure.



REFERENCE STANDARDS

The machine has been designed in compliance with the following Directives:

- MACHINERY DIRECTIVE 2006/42/EC
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/UE
- LOW VOLTAGE DIRECTIVE 2014/35/UE

The partly completed machine is therefore supplied complete with the documentation as required by these Directives.

The manufacturer has designed the partly completed machine in the consideration that it may not be put into service until the final machine in which it will be incorporated has been declared compliant to the requirements of Machinery Directive 2006/42/EC. This manual is therefore a guide providing the instructions for putting the final machine into service with the aim of ensuring safe operating conditions: removing the electrical safety devices and the guards provided by the manufacturer will severely compromise the safety conditions of the machine. In addition, the installation, power supply and maintenance instructions must be strictly followed for proper use of the machine.

The machine must be used in accordance with its intended use as specified by the manufacturer in this manual; it is therefore recommended to carefully read through this manual before use.

Maintenance entails a few simple operations that can be carried out by the machine operator. In order to get the longest life and the best operating economy out of the machine, it is recommended to strictly follow the rules contained in this document.

The manufacturer cannot be held responsible for failures, accidents or other problems due to inobservance of (or failing to apply) the instructions contained in this manual. This also applies to making modifications and changes or installing unauthorised accessories.

This installation manual constitutes an integral part of the partly completed machine. It is essential to keep it intact and in a safe place throughout the lifetime of the partly completed machine.

CAREFULLY READ AND KEEP THIS MAINTENANCE MANUAL.



For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding a:

Qualification certificate (LETTER "F") issued by the prefecture.

It should also be specified that Art. 12 of Pres. Decree 162/99 lays down that the competent municipality has to be notified when putting car lifts and goods lifts into private service, indicating, amongst other things, the qualified company the owner has appointed to carry out system maintenance in accordance with Law 46 of 5 March 1990 [now Min. Decree 37/08]. Therefore, it must be concluded that the company that carries out extraordinary maintenance of the lift systems must also have the requirements according to Min. Decree 37/08.

TO REQUEST COPIES OR UPDATES OF THE MANUAL, CONTACT:

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GENERAL REQUIREMENTS

The systems to which this manual refers must be subjected to regular maintenance with a frequency indicated by the manufacturer with the main aim of guaranteeing system safety and compliance with the laws and regulations in force.

The maintenance operations are exclusively carried out by the manufacturer or by qualified personnel authorised by the manufacturer, or in any case having the legal qualifications required by law for carrying out maintenance operations and who are able to read and understand the diagrams and drawings.

All maintenance operations not described in this manual may only be carried out by the manufacturer's technicians.

When reading this manual, pay attention to the symbols listed below.



WARNING

The rules and/or instructions marked with this symbol regard safety. This symbol indicates the hazards to which the operators are exposed during lift operation. If the rules marked with this symbol are not followed, the machine may be damaged with consequent hazard to the operators.



PROHIBITED

The rules and/or instructions marked with this symbol regard operations that absolutely **MAY NOT** be carried out. Non-observance of these rules may damage the lift and/or cause serious hazards to the operators.

IMPORTANT

IMPORTANT

This type of signal indicates that particular attention should be paid when carrying out cleaning and/or maintenance operations. Inobservance of these rules may damage the machine and/or cause serious hazards to the operators or others.



Any maintenance operation must be carried out with the lift out of service disconnecting the power with the main switch on the electric panel and posting a clearly visible sign indicating that maintenance is being carried out. The maintenance technician must ensure that the lift can only be started after his intervention and permission.



If the lift needs to be moved to look for faults, the instructions given below must be followed in order to guarantee personnel safety:



The operator at the lift controls and the maintenance technician must be able to see each other and easy and clear communication between them must be ensured;



The operator must act on the orders of the maintenance technician and should first repeat them to confirm that he has understood them;



Before going from a stationary to a motion phase, the maintenance technician must stand in a safe position and approach the moving devices only after having made sure that the operator has exactly followed his instructions;



Maintenance must always be carried out in adequate lighting conditions

NOISE

The mechanical and electromechanical elements on board the cabin and inside the lift shaft are developed with specific anti-noise predispositions, so the noise level in the cabin is $LpA < 70$ dB (A).

The one source of noise is the hydraulic control unit located in the utility shaft; in this area the noise at one metre from its source is $LpA = 72.3$ dB.

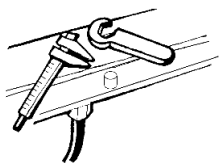
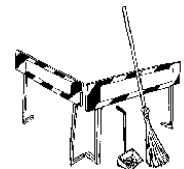
BASIC SAFETY RULES

The installation operators (installation and startup) must have the required qualifications. In Italy, the installation company must have the required professional technical qualifications (letter F of Pres. Decree 162 of 30 April 1999) and be authorised by the competent body. The installer must hence be able to read and understand the diagrams and drawings. The system must be installed following the instructions in the relative technical file and all the necessary safety devices must be in place to protect the safety of the personnel.

The lift owner must ensure that anyone who has access to the installation devices has read through and fully understood the contents of this manual. In addition, it is important that the owner ensure that the operators comply with all the regulations and/or requirements for the prevention of accidents in the workplace, also in consideration of the specific conditions in the place of installation.

WARNING

The working environment must be kept clean and tidy. In particular, the danger zones must be duly marked off.



WARNING

Do not leave working tools and materials on the lift (or anywhere else where they may interfere with the mechanical movements of the lift) or where they can fall and cause damage to persons and/or things.

WARNING

Every tool is to be used only for the purpose for which it was designed and in the most suitable way. Any tool that has deteriorated or is in poor condition is a potential hazard.



WARNING

Loose-fitting clothing (e.g. scarves, ties, etc.) is a potential hazard. Always work wearing tight-fitting clothes.



WARNING

Oil and grease spilled on the floor must immediately be removed to prevent any risk of slipping or falling.



SAFETY CONDITIONS FOR MAINTENANCE



All the installation operators must use personal protective equipment and clothing as required by the regulations in force on accident prevention in the workplace.

PPE: harness, hard hat, shoes, gloves



In order to ensure safety of the construction site, access to the pit must be limited. If no permanent fencing is provided, the installer must put up provisional fencing around the perimeter of the pit. Only authorised personnel may access the fenced-off area.

MAINTENANCE TECHNICIAN EQUIPMENT

- Scaffolding
- Electric hoist for construction sites
- Anti-fall systems, harnesses
- PPE
- Standard tools
- Portable welder
- Sander
- Portable lamps for the areas difficult to access and poorly illuminated
- No. 04 Props H=2000mm (approx.) to support the platform (500 kg) if operations underneath the platform are required.
- Thermometer to check the operating temperature
- Stop watch to check the operating speed
- Amperometric pliers to check electric motor absorption

MAINTENANCE FLOOR:

The maintenance plan is provided to the customer purely by way of information (half-yearly maintenance is recommended).



The hydraulic system must be checked only after having discharged the hydraulic pressure; the checks must be carried out with particular care preventing foreign bodies or substances harmful to operation from entering the circuit.

CORRECT USE

The use of the UP lift system is in respect of the following rules:

- it may only be used for the purpose for which it was constructed;
- the electrical connection must be made to a protected mains supply according to the safety regulations in force;
- only a maintenance technician is allowed to access the pit.

RISKS ARISING FROM NON-OBSERVANCE OF THE SAFETY REGULATIONS AND RULES

Non-observance of the safety regulations and rules may damage the lift, cause harm to the operators and/or the environment, and lead to forfeiture of the warranty on the lift. Damage deriving from non-observance of the safety rules may give rise to:

- Machine malfunctioning;
- Electrical and mechanical risks and/or hazards;

RESIDUAL RISKS



Any activation may only take place in proximity of the lift shaft, taking the utmost care that people, animals or things are not standing or transiting within or in the vicinity of the machine perimeter



Ensure that any system-dedicated fire extinguisher is always efficient and has been overhauled within the times and in the ways set down in the law.



Inflammable substances of any nature are strictly forbidden from being kept on the loading platform.



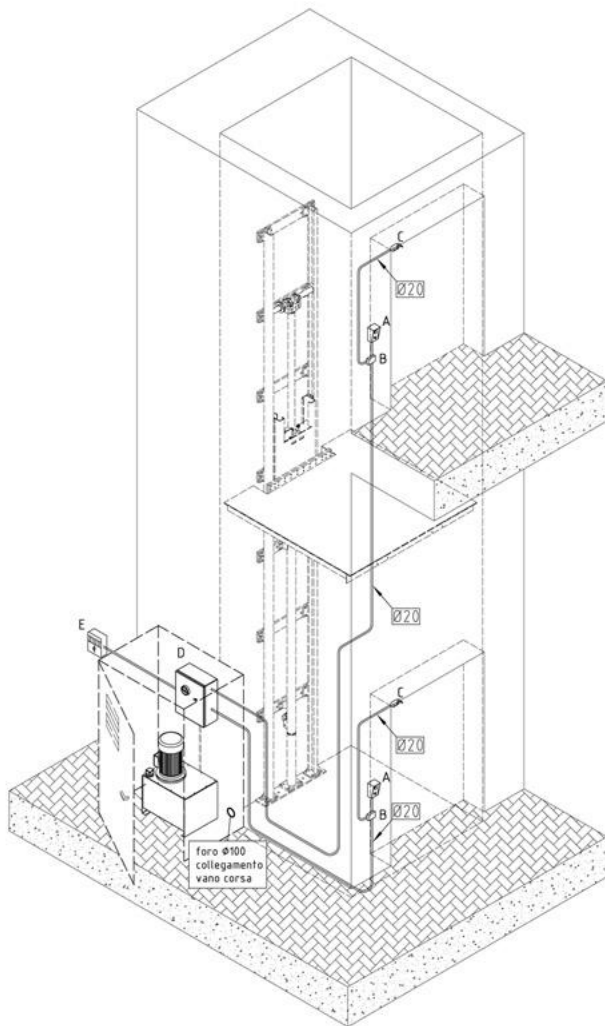
Do not leave persons and/or animals in the motor vehicle, take the greatest care to leave the vehicle empty before beginning the parking operations.



Impact cause by mechanical members in motion

CHECKING THE ELECTRIC LINE

Check that the power supply line and power socket are present and that the power is suited to the system characteristics. The electrical characteristics of the system are indicated on the electric panel wiring diagram and on the motor data plate.



- Two 20mm Ø corrugated pipes must reach each floor for connection of the pushbutton panel and the electric lock to the utility shaft.
- The utility shaft must be located on the lower floor on a wall adjacent to the goods lift shaft for positioning of the hydraulic control unit and the electric panel.
- One 100mm Ø hole is required in the extra pit for the hydraulic tubes to run through.
- The utility shaft must be large enough to allow maintenance operations by qualified operators (minimum 100x160xH200cm) and be positioned in a place accessible for maintenance and at the same time away from and protected against access by unauthorised persons, and must be 200 Lux illuminated.
- The utility shaft should be positioned in a dry place protected against water.
- It is advisable to protect the technical area with a brick wall, panels or a specific technical cabinet.
- The standard length of the hydraulic tubes and the electric cables is 6m.
- Install a differential switch upstream of the electric system of the goods lift positioning it in the utility shaft.
- Provide lighting in the lift shaft: Prepare an adequate lighting system: 50 Lux in the goods lift shaft; 200 Lux in the utility shaft

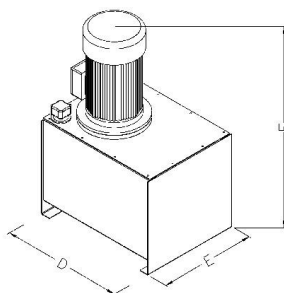
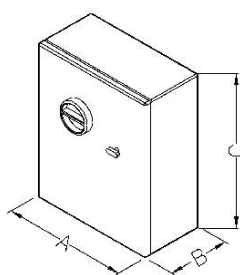
PANEL DIMENSIONS

ELECTRICAL:

A = 51 cm

B = 25 cm

C = 65 cm



HYDRAULIC CONTROL UNITS DIMENSIONS

	1.5kW 2.2kW	3kW	4 kW	5.5kW
F	70cm	75cm	80cm	80cm
D	30cm	40cm	60cm	60cm
E	25cm	35cm	45cm	45cm
	220V single-phase	220-380V three-phases	220-380V three-phases	220-380V three-phases

SINGLE-PHASE MOTORS AVAILABLE

Motor	Operating voltage	Starting	Recommended switch*	Rated current	Starting current
1.5 kW	220V - single-phase	Direct	2x16A id=0.3A	9.5	28
2.2 kW	220V - single-phase	Direct	2x16A id=0.3A	10.5	32

* Automatic magnetothermal switch with differential, curve "C".

THREE-PHASE MOTORS AVAILABLE

Motor	Operating voltage	Starting	Recommended switch*	Rated current	Starting current
3 kW	220V - three-phase	Direct	3x16A id=0.3A	10	35
	380V - three-phase	Direct	4x16A id=0.3A	5	22
4 kW	220V - three-phase	Direct	3x20A id=0.3A	16	50
	380V - three-phase	Direct	4x16A id=0.3A	8	25
5.5kW	220V - three-phase	Direct	4x25A id=0.3A	22	60
	380V - three-phase	Direct	4x16A id=0.3A	11	35

* Automatic magnetothermal switch with differential, curve "C".

Provide for pentapolar 3P+N+G power supply

UTILITY SHAFT INSPECTION

The utility shaft is the area where the hydraulic control unit and the electric panel of the lift are housed. The utility shaft should preferably be located adjacent to the lift shaft and should be clean and damp-free



Check that there are holes for passage of the cables and hydraulic tubes between the lift shaft and the utility shaft, recommended minimum passage hole diameter 100mm;



Check that there is an electric line with characteristics suited to the system for power supply and wiring to the electric panel;



Check that there is adequate space for the maintenance operations as required by the regulations in force (recommended space of at least 1000x1000mm);

POWER IN THE ELECTRIC PANEL:



In the case of systems with UPS, to cut the power in the electric panel, it is important to disconnect the power supply from the UPS before opening the panel



Electrical connections

Connection of the power supply must be carried out by an authorised electrician according to the local regulations.

Before making the connections, disconnect the power supply. The wiring diagram and the electric panel labels show the information necessary for connection and the required power supply values.

SAFETY STRUT

For safety reasons, it is essential to install the strut if working underneath the lift during installation and maintenance.



It is strictly prohibited for unauthorised persons to stand underneath the lift and for reasons other than those mentioned above.

Operate as follows to install the strut:

- Anchor the base plate to the pit floor
- Screw one end of the side plates onto the base plate
- Screw the tube onto the side plates
- Provisionally anchor the angle bar to the pit floor (respect coupling with the tube)
- Screw the limit switch onto the angle bar
- Check that the tube is correctly in contact with the limit switch
- Finally fasten the limit switch
- Connect the limit switch to the electric panel (see the electric system manual)





In the rest phase, fasten the tube to the angle bar

During operation position the tube vertically by screwing the other end of the side plates onto the base plate. Check that the position is correct in order to ensure that the platform is supported.



The strut guarantees a maximum capacity of 2000 kg



Any maintenance operation must be carried out with the lift empty

EMERGENCY STOP BUTTON IN THE PIT



An emergency stop button is provided in the pit to be activated during maintenance to disable any movement command given from the outside



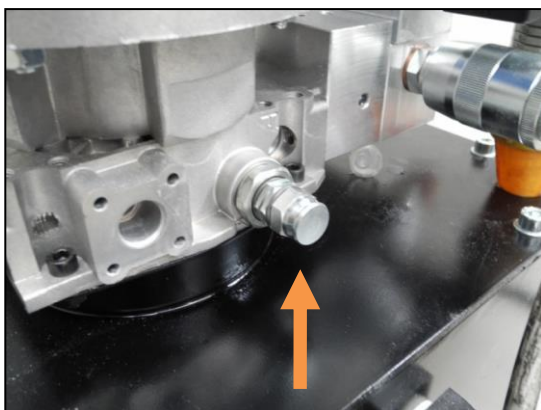
It is strictly prohibited for unauthorised persons to stand underneath the goods lift and for reasons other than those mentioned above.

ADJUSTING THE RELIEF VALVE

Adjust the relief valve setting a maximum operating pressure as shown in the table below:

GOODS LIFT CONTROL UNITS							
MODEL	CYLINDER		DATA CONTROL UNIT				
	Rod diameter (mm)	Cylinder max travel (mm)	Maximum operating pressure (bar)	Vol. Acc. (Lt)	Prec. Acc. (Bar)	Motor (kW)	Pump (cc)
UP3	40	3850	75	0.15	30	1.5	2.67
UP6	40	3100	115	0.15	30	2.2	2.67
	45	3600	95	0.15	20	2.2	3.34
UP10	55	3750	140	0.15	50	3	5.8
	60	4250	120	0.15	40	3	7.9
	70	5600	90	0.15	30	3	11
UP15	55	3350	170	0.15	50	4	5.8
	60	3800	145	0.15	40	4	7.9
	70	5100	110	0.15	30	4	11
	70 (with carriage)	6600	110	0.15	30	4	11
UP20	60	3250	195	0.35	50	4	7.9
	70	4450	145	0.35	40	4	11
	70 (with carriage)	7600	145	0.35	40	4	11
UP25	70	4100	165	0.35	40	5.5	11
	70 (with carriage)	7600	165	0.35	40	5.5	11

Relief valve position



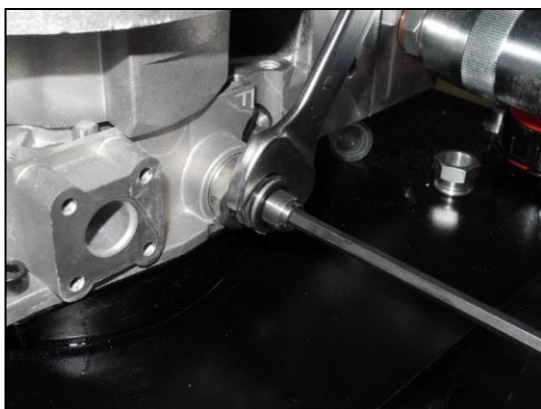
UP3 – UP6 – UP10 – UP15



UP20 – UP25



Remove the cap to access the Allen screw



Loosen the nut screw and act on the Allen screw:

Clockwise = Increases the pressure

Anticlockwise = Decreases the pressure

Carry out the operation with the mechanical limit switch system



Note down the operating pressure on the installation checklist

GENERAL CHECKS

PART TO BE CHECKED	VALID FOR						MAINTENANCE OPERATIONS	FREQUENCY OF CHECK	
	UP 3	UP 6	UP 10	UP 15	UP 20	UP 25		EVERY 6 MONTHS	EVERY 12 MONTHS
LIFT TRAVEL	•	•	•	•	•	•	Let the lift ascend and descend at least once to check the quality, measure the speed and compare it with the data given in the lift manual. Consider all the possible faults detectable: levelling at the floors, platform centring, vibration, noise, interferences, etc. and take the necessary action.		•
FLOOR LEVEL	•	•	•	•	•	•	Check that platform docking precision at each level is within a tolerance of 1.5cm. Check the planarity of the platform. Check that the rest bolt with nut screw is tight. Check that the reading of the floor limit switch is reliable		•
PLATFORM LOADING AND UNLOADING	•	•	•	•	•	•	Check the behaviour of the hydraulic system and consequent movement of the platform during loading and unloading.		•
GUIDE WEAR	•	•	•	•	•	•	Check the state of wear of the sliding guides and grease them if necessary.		•
BEARING CONDITIONS	•	•	•	•	•	•	Check the state of wear of the bearings and adjust and grease them if necessary		•
WALL SCREW-ANCHORS	•	•	•	•	•	•	Check for perfect hold of the heavy-duty anchors fastened to the wall, taking any settlement of the building into account, and tighten them with a torque wrench if necessary. Remove any excess material that may interfere during travel.		•
MECHANICAL DEVICES	•	•	•	•	•	•	Check the conditions of the mechanical devices, bearings, pulleys, pins, etc.		•
CHAINS, STAYS AND TRANSMISSION PULLEYS	•	•	•	•	•	•	Check the state of wear of the chains and the pulley races and lubricate the parts if necessary. Check for any signs of deterioration and wear of the stays and that the coupling resistance has remained unchanged.	•	
OVERALL LIFT CONDITIONS	•	•	•	•	•	•	Check that there is no rust in the critical areas of the lift: guides, mechanical devices, etc. Clean off excess grease		•
ELECTROMECHANICAL HOOKS	•	•	•	•	•	•	Check the conditions of the electromechanical hooks, their operation, safe resting on the floor and lubricate them if necessary. Check that the reading of the proximity or limit switch is reliable		•
HYDRAULIC CYLINDER	•	•	•	•	•	•	Check the seal of the piston gasket, check the fittings and bleed if necessary.		•

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CHECK VALVE							Check proper functioning of the check valve and the coil if present. Position and stop the machine between levels, check that the platform does not lose height after 1 minute. WARNING: it is prohibited to remove the check valve without having locked the platform and activated the safety strut. REMOVING THE VALVE CAUSES THE HYDRAULIC SYSTEM TO DISCHARGE AND IMMEDIATE FALLING OF THE PLATFORM		
OIL SEAL IN GENERAL	•	•	•	•	•	•	Check that there are no oil leaks due to seepage on the various system components (cylinder, check valve, control unit, fittings, tubes, etc.). Check that the oil in the tank is clear following the activation of the system		•
TUBES AND FITTINGS	•	•	•	•	•	•	Check that they are in good condition; if the external tube protection is damaged, the tube must be replaced.	•	
OIL LEVEL	•	•	•	•	•	•	Check that the oil level in the tank is above the minimum when the goods lift is stationary at the highest floor.		•
CHECK FLOW REGULATORS	•	•	•	•	•	•	Check that the flow regulators (chokes) are properly adjusted and locked. Check that the descent velocity with the platform loaded is <0.15m/s		•
OPERATING PRESSURE/MAX. PRESSURE RELIEF VALVE	•	•	•	•	•	•	Check that the operating pressures have remained unchanged and check calibration of the relief valve.		•
ELECTRIC LOCKS	•	•	•	•	•	•	Check the effectiveness of the electric locks and that they work correctly		•
EXTERNAL AND ON-BOARD ELECTRIC SYSTEM	•	•	•	•	•	•	See the use and maintenance manuals of the electrical part: motor protection devices, lock limit switch and proximity switch contacts, electrical connections, insulation tests, ground tests, cabin lighting, buttons, warning lights, badge and key contacts, electrical safety devices, other electrical devices, electrical lines, alarm devices.	•	
UPS	•	•	•	•	•	•	Check the seal of the UPS without power on; the system must guarantee a descent cycle and the activation of the lock. After 2 years replace the batteries		•

CHECK CHAINS MODE:



Chain used: Lifting chain Flyer AL622
/ AL644 / AL666 / AL688
Pitch = 19.05mm – 3/4"

- The chain must be tensioned.
- Carry out the control as close as possible to the transmission pulley, on a straight section of chain.
- Carry out the check by measuring 8 chain pitches.
- Position the appendages 1 and 2 on the chain projecting pins.

The notches indicate:

- New chain with length close to nominal value
- Chain with elongation of 1.5%

Chain with elongation of 3% and regulations require replacement.

EXAMPLE:

- Nominal length 8 PITCHES = $19.05 \times 8 = 152.4\text{mm}$
- Elongation limit 3% = 4.6mm
- Maximum length 8 PITCHES = **157mm MAX!**

FILLING THE TANK

The hydraulic unit tank is to be filled with oil for hydraulic systems, type Wladoil Engine HY SY. It is important to use special filters that prevent polluting particles from entering. For the system to be operated the oil must be above the minimum level indicated on the tank

Wladoil Engine HY SY 32/B (approximate average characteristics)

- | | |
|----------------------------------|-------|
| - Density at 15°C: | 0.868 |
| - cSt viscosity at 40°C: | 31.9 |
| - Engler viscosity at 50°C: | 3 |
| - Viscosity Index: | 107 |
| - Pour point °C: | -32 |
| - Flammability VA °C: | 224 |
| - Aniline point: | 97 |
| - DIN 51 524 HLP classification: | 32 |

UNLOCKING THE LANDING DOORS

If for unexpected reasons you cannot open the landing doors equipped with an external electric lock by manual force, you can operate as follows:



NB: This operation is to be carried out with the platform at the floor from where you want to access!

IF THE LOCK IS RELEASED WITH THE PLATFORM NOT AT THE FLOOR, THERE IS A RISK OF FALLING.

- Release the electric lock; the unpowered electric lock can be released by following the instructions below:



1) unscrew retaining screws



2) using a simple screwdriver, turn the slider from the "locked" to the "open" position

- open the landing door following the unlocking instructions of the installed automation.



On conclusion of the operations reset the electric lock contact

DOORS INTERFACE

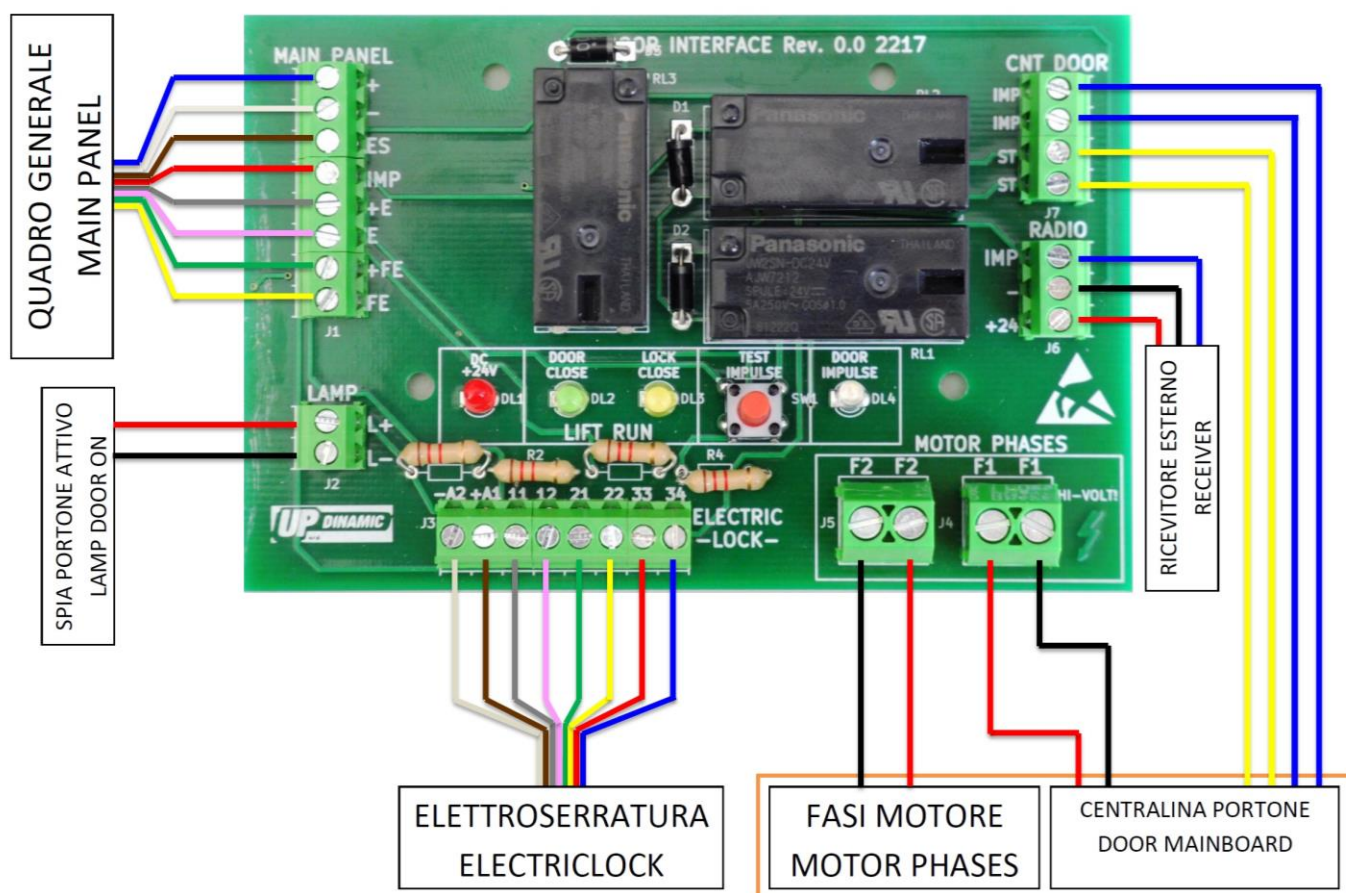
(only with automatic doors)

Connect the doors using the supplied interface.

Functions of the interfacing card:

- Connection of interlock device (Electric lock)
- Connection of door motor phases to prevent activation with the system between levels
- Connection of opening signal (IMP) for prohibiting sending of the opening signal with the system between levels
- Management of the door (ST) STOP contact to block the door with the system between levels
- Connection of the transmitter for management of the opening signal
- "Door in action" light connection

INTERFACCIA PORTONI / DOORS INTERFACE



EMERGENCY PROCEDURE FROM THE PANEL (FOR AUTHORISED PERSONS ONLY)



For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding an appropriate certificate of qualification (LETTER "F") issued by the prefecture.



Press the two buttons at the same time to carry out the emergency descent

FIRST BYPASS BUTTON (BY):

The first button to the right bypasses the safety devices and enables the Descent Button (DE)

The Bypass button excludes:

- Doors-closed contact bypass
- Stop bypass
- Photocell bypass
- Emergency stop bypass

SECOND RIGHT DESCENT BUTTON:

this powers the descent valve with a continuous command action.



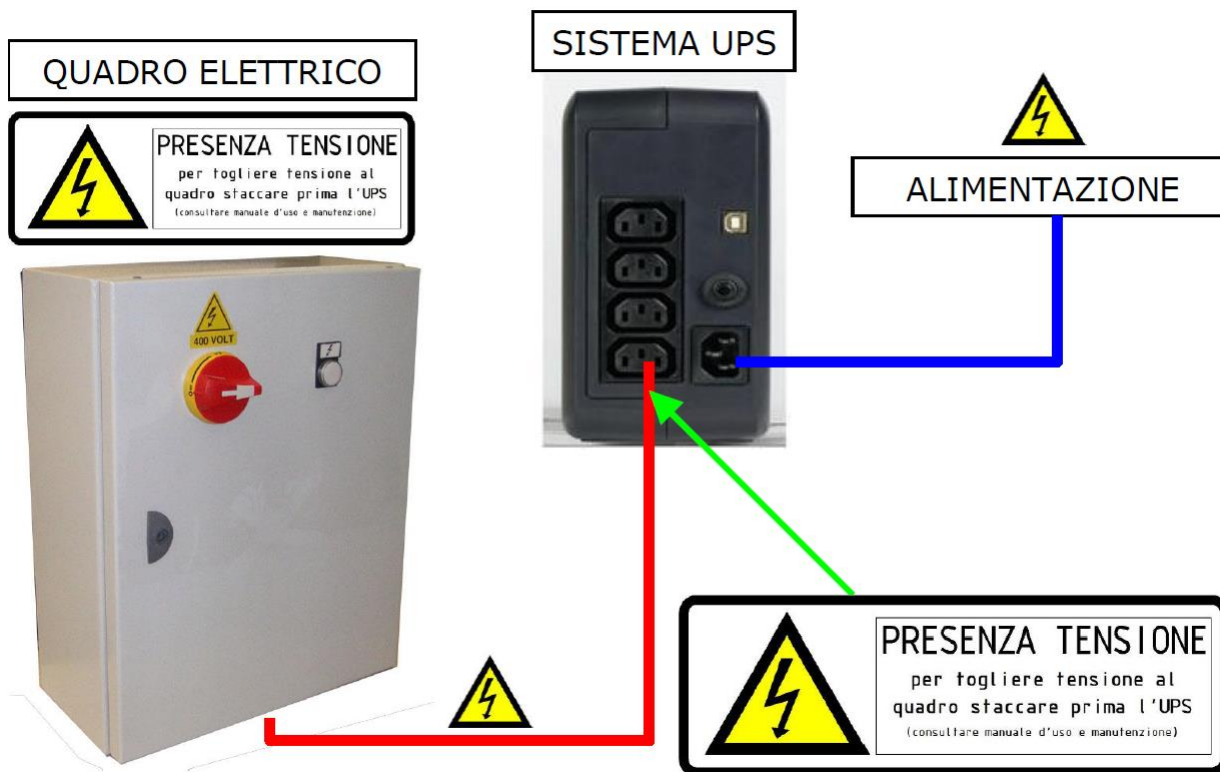
WARNING: NO SAFETY DEVICE IS ACTIVE DURING MOVEMENT

Wait for the platform to arrive at the lower floor; the card display will indicate the arrival of the platform at the lower floor

POWER IN THE ELECTRIC PANEL:



In case of systems with UPS, to cut the power in the electric panel, be sure to disconnect the power supply from the UPS before opening the panel.



In the case of a goods lift with UPS: replace the batteries every 2 years

PHOTOCELLS ON BOARD THE CABIN



The open sides of the cabin are provided with safety photocells.

2 photocell ranks are present on each side

It is sufficient to interrupt one rank only to halt the machine

When the photocells are interrupted, the light on-board the cabin lights up and remains lit while the photocells are occupied.



Frequent cleaning of the photocells is recommended.



Per informazioni:
www.updinamic.com
E-mail: info@updinamic.com

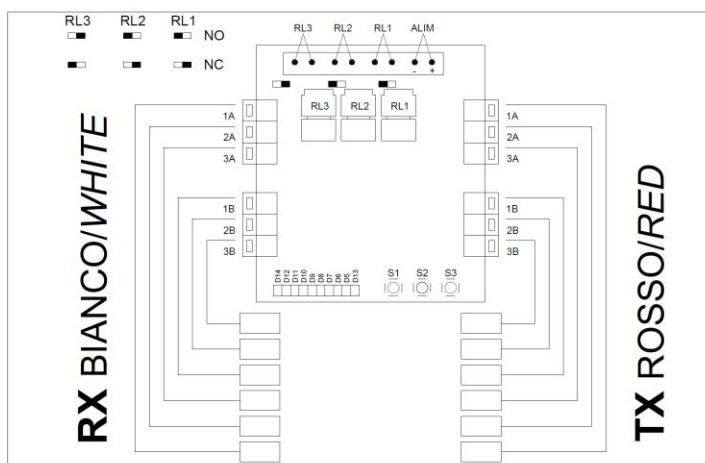
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CARATTERISTICHE TECNICHE / TECHNICAL DATA

PORTATA/RANGE	0,1 ÷ 6 mt.
PROTEZIONE/DEGREE OF PROTECTION	IP 30 (IP 55 OPTIONAL CASE PROTECTION)
ALIMENTAZIONE/SUPPLY VOLTAGE	12 / 24 Volt AC-DC SENZA NECESSITÀ DI SETTAGGIO
ASSORBIMENTO/SUPPLY CURRENT	100 mA (LN1054.C) 130 mA (LN1056.C)
TEMPERATURA DI FUNZIONAMENTO/OPERATING TEMPERATURE	-15 ÷ +50°C
USCITA/OUTPUT	N.O. / N.C. RELAY CONTACT
PORTATA CONTATTO/OUTPUT CONTACT	5 A - 30 Volt DC / 0,9 A - 60 Volt DC PROTECTED BY EXTRA -TENSIONS
RAGGIO/OPTICAL RAY	INFRARED 900 nm
CONFORMITÀ/APPROVALS	89 / 336 / CEE
SERIE SENSORI COMPATIBILI/ COMPATIBLE BEAMS	PS 2003; PS 2007; PS 2010 ADATTATORI SPECIALI PER QUALSIASI TIPO DI CO- STA DI SICUREZZA SPECIAL FITTINGS TO ANY SAFETY RIBS



LED ATTIVI

D14 acceso presenza alimentazione.
D12 acceso relè RL1 eccitato, comandato dalla coppia di raggi 1A-1B allineati.
D11 acceso relè RL2 eccitato, comandato dalla coppia di raggi 2A-2B allineati.
D10 acceso relè RL3 eccitato, comandato dalla coppia di raggi 3A-3B allineati (solo LN1056.C).

CONFIGURAZIONE DEI RAGGI

Premere S2 per 5 sec. per attivare la funzione.

D9 acceso coppia in esame 1A-1B
D8 acceso coppia in esame 2A-2B
D7 acceso coppia in esame 3A-3B (solo LN1056.C)
D6 acceso attivo raggio A della coppia in esame
D5 acceso attivo raggio B della coppia in esame
D13 spento coppia in esame in configurazione OR
D13 acceso coppia in esame in configurazione AND

premere S2 per selezionare la coppia.
stato non modificabile.
si attiva o disattiva premendo S3.

Premere S2 per 5 sec. per memorizzare la configurazione e uscire dalla funzione.

REGOLAZIONE SENSIBILITÀ RAGGI

Premere S1 per 5 sec. per attivare la funzione.

Il sistema calcola la potenza ottimale in funzione della distanza tra Tx e Rx.

Durante la fase di regolazione i led D9-8-7-6-5-13 lampeggiano sequenzialmente.

Al termine del lampeggio è possibile, se necessario, apportare una regolazione fine della potenza dei trasmettitori.

D9 lampeggiante = raggio 1A
D8 lampeggiante = raggio 2A
D7 lampeggiante = raggio 3A
D6 lampeggiante = raggio 1B
D5 lampeggiante = raggio 2B
D13 lampeggiante = raggio 3B

premere S1 per selezionare il raggio da regolare.

Premere S2 per diminuire la potenza (il led del raggio lampeggia più velocemente).

Premere S3 per aumentare la potenza (il led del raggio lampeggia più lentamente).

Premere S1 per 5 sec. per memorizzare la regolazione e uscire dalla funzione.

RITORNO ALLA CONFIGURAZIONE DI FABBRICA (DEFAULT)

Premere S3 per 5 sec. un rapido lampeggio dei led segnala il ripristino della configurazione di fabbrica.

CONFIGURAZIONE DI FABBRICA (DEFAULT)

La centralina viene fornita con tutti i raggi attivi e le coppie in configurazione OR alla massima potenza.

LEDS ON

D14 on input
D12 on RL 1 is controlled by 1A-1B lined up beam pair
D11 on RL 2 is controlled by 2A-2B lined up beam pair
D10 on RL 3 is controlled by 3A-3B lined up beam pair (only LN 1056.C)

BEAMS' CONFIGURATION

Push S2 key for 5 seconds continuously to activate the function.

D9 on pair 1A-1B
D8 on pair 2A-2B
D7 on pair 3A-3B (only LN 1056.C)
D6 on beam "A" of the selected pair is active
D5 on beam "B" of the selected pair is active
D13 off pair in "OR" configuration
D13 on pair in "AND" configuration

push S2 key to select the pair
not modifiable condition
it can be on/off by pushing S3
it can be on/off by pushing S1, only in the case " beam "B" is on (D5 on)

Push S2 for 5 seconds to save the configuration and to log out.

BEAMS' SENSITIVITY ADJUSTING

Push S1 key for 5 seconds continuously to activate the function.

The device calculates the optimum power according to the distance between TX and RX.

During the adjusting process D9-D8-D7-D6-D5-D13 leds blink sequentially.

When the leds' blinking is finished, if necessary, it is possible to regulate the transmitters power.

D9 blinking = 1A beam
D8 blinking = 2A beam
D7 blinking = 3A beam
D6 blinking = 1B beam
D5 blinking = 2B beam
D13 blinking = 3B beam

push S1 key to select the beam to adjust

Push S2 to reduce the power (the led blinks faster).

Push S3 to increase the power (the led blinks slowly).

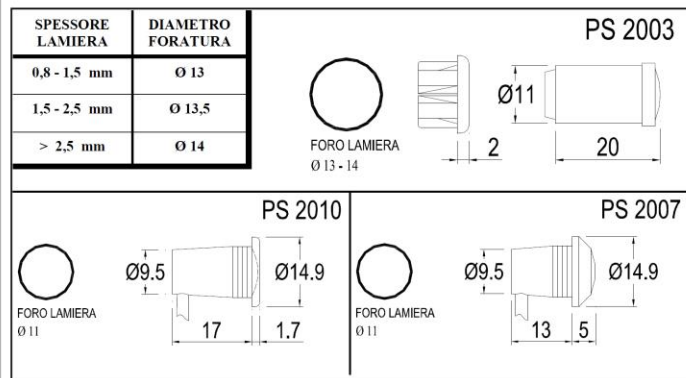
Push S1 for 5 seconds to save the adjusting and log out.

RETURN TO FACTORY SETTING (DEFAULT)

Push S3 for 5 seconds and a rapid leds' blinking indicates the return to factory configuration.

FACTORY CONFIGURATION (DEFAULT)

The control unit is equipped with operating beams and with beam pairs in "OR" configuration at the maximum power.





MAINTENANCE MANUAL

Rev.03 Update 26/06/2018

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PROGRAMMING REMOTE RESCUE HELPYVOX MODEL

Dial the dialler number, wait for it to ring twice and for the connecting tone; then proceed with entering the access codes.

ACCESS CODES:

ACCESS TO PROGRAMMING ***0#**

EXIT FROM PROGRAMMING ***0#**

PROGRAMMING CODES (These can be entered following access):

TELEPHONE NUMBER **210112** TELEPHONE NUMBER#

CANCEL TELEPHONE NUMBER **210112#**

RECORD A MESSAGE **7101** Recording up to 20 seconds, until the beep sounds

ACTIVATION OF LOUDSPEAKERS **780** Activation of loudspeakers using number
"0"

781 Activation of automatic response loudspeakers

AUTOMATIC RESET **770** Automatic reset on conclusion of each call

771 Reset with end code, no."9"

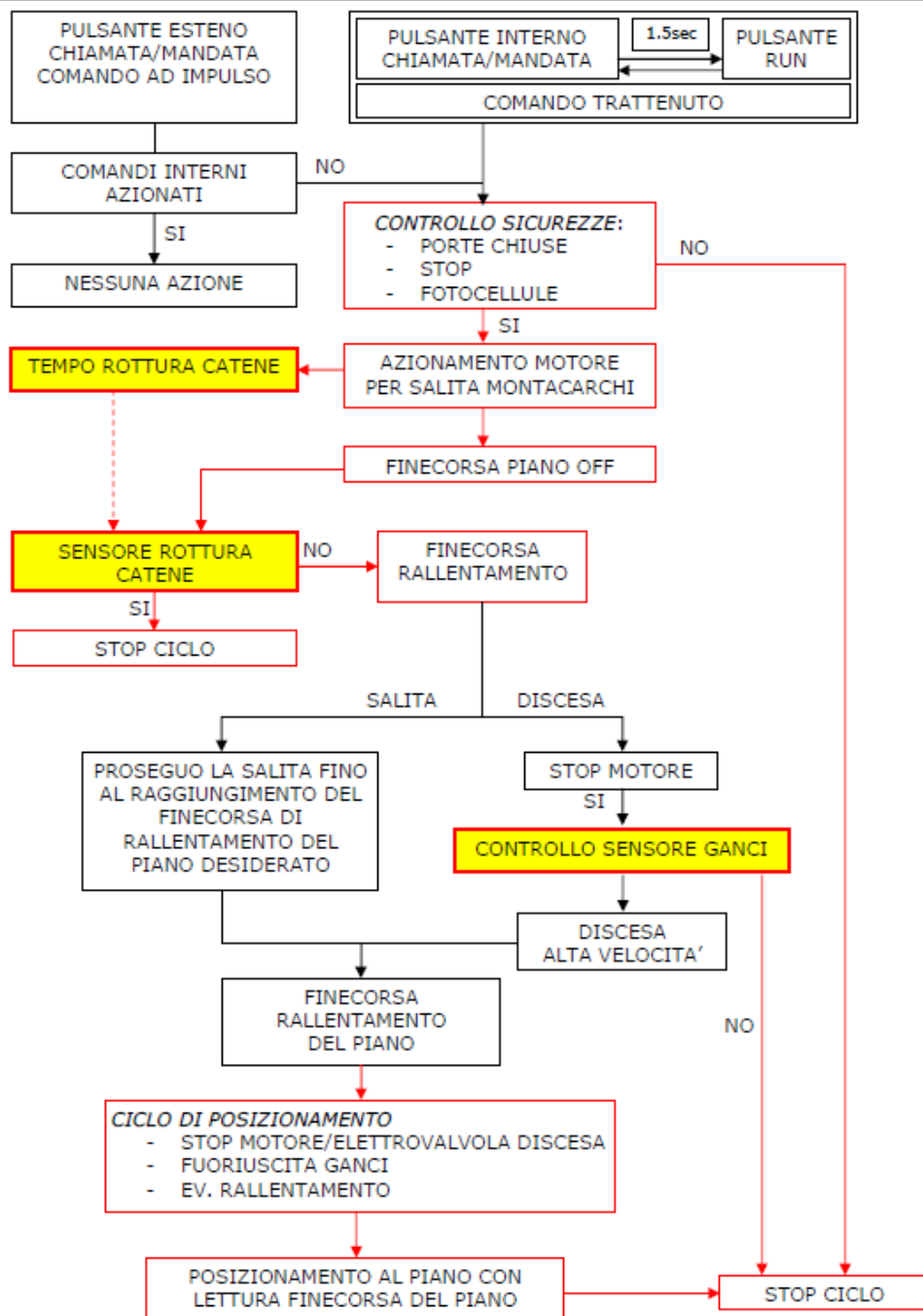
FACTORY SETTINGS **99** Reset factory settings

RESPOND TO THE ALARM

- Respond and listen to the message
- Press 0 to speak with the trapped person
- Press 9 to reset the alarm

OPERATING LOGIC

CICLO DI FUNZIONAMENTO MONTACARICHI UP - SPB (28-11-2013)



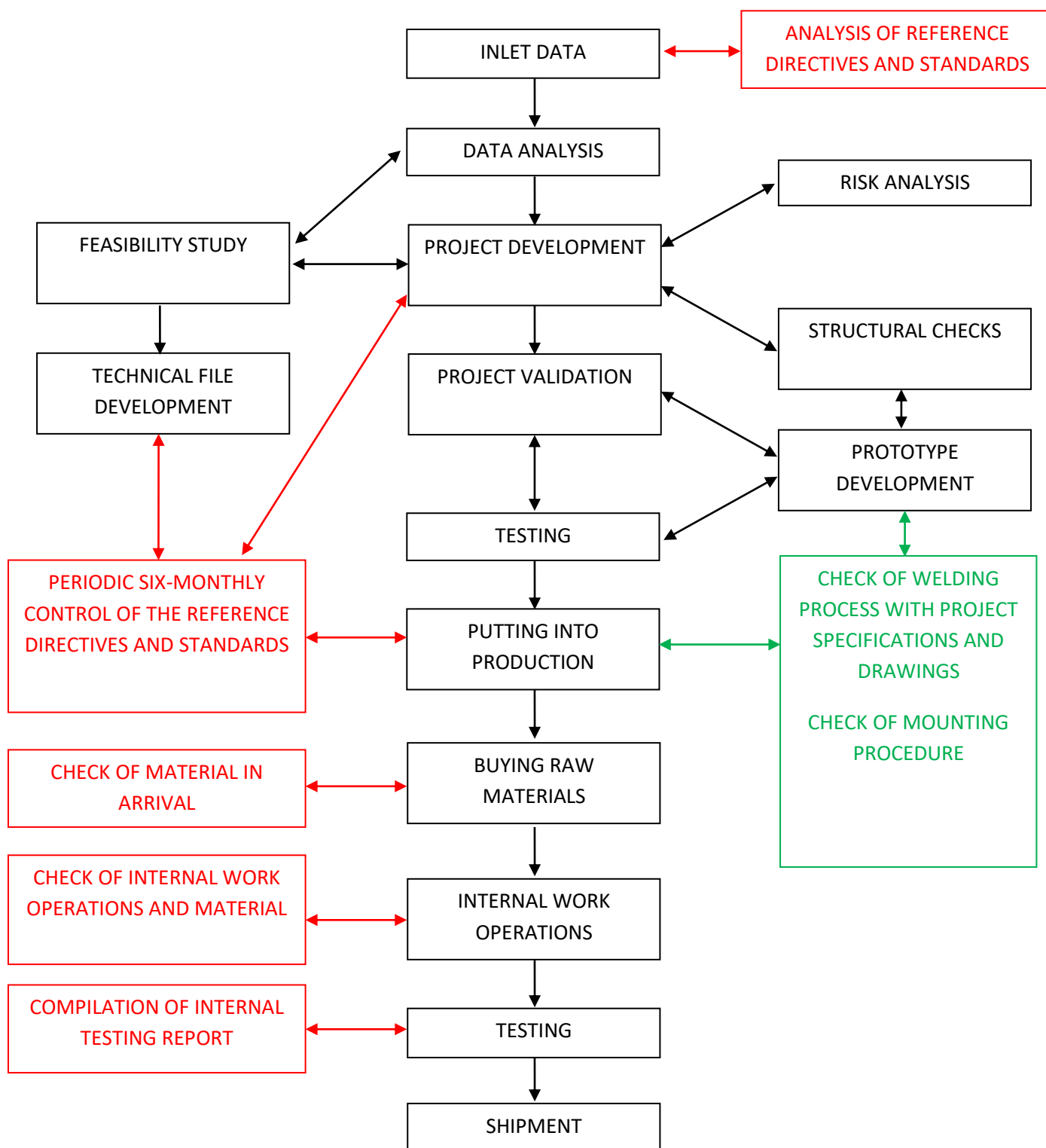
NOTE: Inserito "tempo di occupato" di 5 secondi, inibisce i comandi esterni appena terminata la manovra dall'interno e alla chiusura di una porta.
Iniziata la manovra dall'interno, può essere terminata solo dall'interno senza accettare comandi esterni escluso lo stop.

 = MANOVRA AUTOMATICA

 = MANOVRA AUTOMATICA SOLO DA ESTERNO

 = CONTROLLI SICUREZZE

PROJECT AND STANDARDS CHECKING PROCEDURE





MAINTENANCE MANUAL

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TECHNICAL SERVICE

Contact the system maintenance company or our Sales and Technical Service Department for anything you may need.

TECHNICAL SERVICE CENTRE

UPDINAMIC S.r.l.

Via Modigliani, 22

37045 Legnago (VR)

Tel. +39 0442 / 590129

Fax +39 0442 / 599091

info@updynamic.com

REPAIRS AND SPARE PARTS

Important

IMPORTANT: For any repairs, contact qualified and authorised persons.

Should you ask our Sales and Technical Service Department for technical information or spare parts, always specify the data indicated on the identification plate.



MAINTENANCE MANUAL

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