



ELFIPA



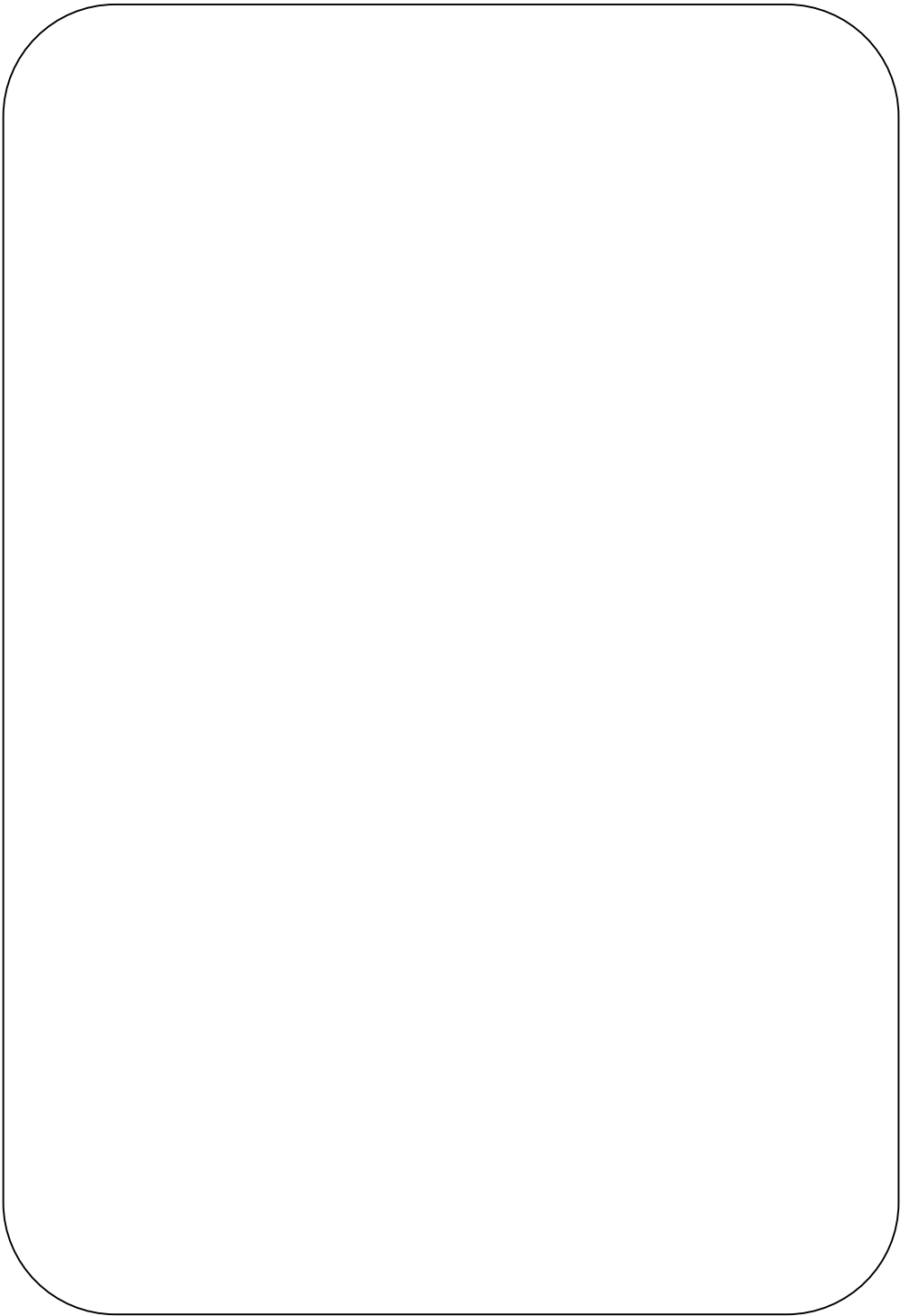
AUTOMAZIONE TIRO A VOLO
REALIZZAZIONI ELETTRONICHE



SKEET MANUAL UNIT

SKEET UNIT with RADIOCONTROL

Operating Instructions



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1. SUMMARY

Dear customer, we thank you to choose our product and we ask you to read carefully the **Operating Instructions** on the using of "Skeet", necessary for a correct use of it and for its safety.

The information of the manual have the aim to provide notices about:

- The use of "Skeet";
- Technical Features;
- Elimination Instructions.

FEATURES OF THE PRODUCT:

- "Skeet" is a kit which permits control a target release machine by using one or more microphones.
- It presents a release control, five plugs for the microphones and the control through token machine.



This Manual is to be considered as part of the product "Skeet" and therefore, it has to be kept carefully as a future reference, for the whole duration of the product.

2. SPECIFICATIONS OF THE PRODUCT

2.1 Intended Use

“Skeet” is a product destined to work together with two target release machines and two lamps.

There are no other uses of this product.

2.2 Dimensions and Weights

The overall dimensions of the product (not packed) are:

Width:	12 cm
Length:	30 cm
Height:	40 cm

The overall weight is 9 kg.

2.3 Electronic Supply Data

220 VAC, absorption ~100VA



ELFIPA S.n.c. doesn't take any responsibility for a wrong installation or connection of the product. It's suitable that all the operations are made by skilled workers.

2.1 Environment Conditions and Limits of Functioning

The "Skeet" is arranged to work in temperature and humidity standard conditions.

These standard conditions correspond to temperatures included between -5°C and $+40^{\circ}\text{C}$ with a degree of humidity of 50% 620%.

The product has been created to be used in an internal environment, not outside. The equipment has to be protected by weather agents (rain, humidity, etc..).

The declared protection index is IP 40

2.4 Safety Directions

The "Skeet" implies some risks and for them is absolutely necessary to pay attention to what follows:

- Before doing whatever cleaning or maintenance operations, disconnect the "Skeet" from the electronic supply;
- To warrant the greatest stability and safety, the equipment has to be laid down on a solid, flat and fixed surface;
- **Warning** this is an A Class product. If it is placed in a residential place, it can cause radio troubles. In this case the user can be asked to take proper measures.
- ELFIPA S.n.c. doesn't take any responsibility for the following cases:



- Unproper use of the product "15 Channels Transmitter with smart-card" (for the Intended Use, go to paragraph 2.1 of this Manual);
- Defects in the electronic supply;
- Modifications or interventions not authorized and made by not skilled workers;
- Non-observance (partial or total) of the Operating Instructions.

3. INSTALLATION

Before doing whatever connection, it is necessary to fix the cupboard in an accessible position, protected from the rain (usually inside the MARK cabin or under the PULL cabins).

Now the costumer can proceed with the connections to the machines, lamps, sequencer (in case it's present) and power supply.

Make the cables out thanks to their forage cables in the inferior part of the box.

3.1 Fixing

Open the cover of the cupboard, removing the four screws; the cover remains fixed to the box through two hinges. In the bottom of the box, near the angles, there are four holes, which are closed with four plastic corks; remove the corks and use these holes to fix the box to the cabin wall, using the proper screws.

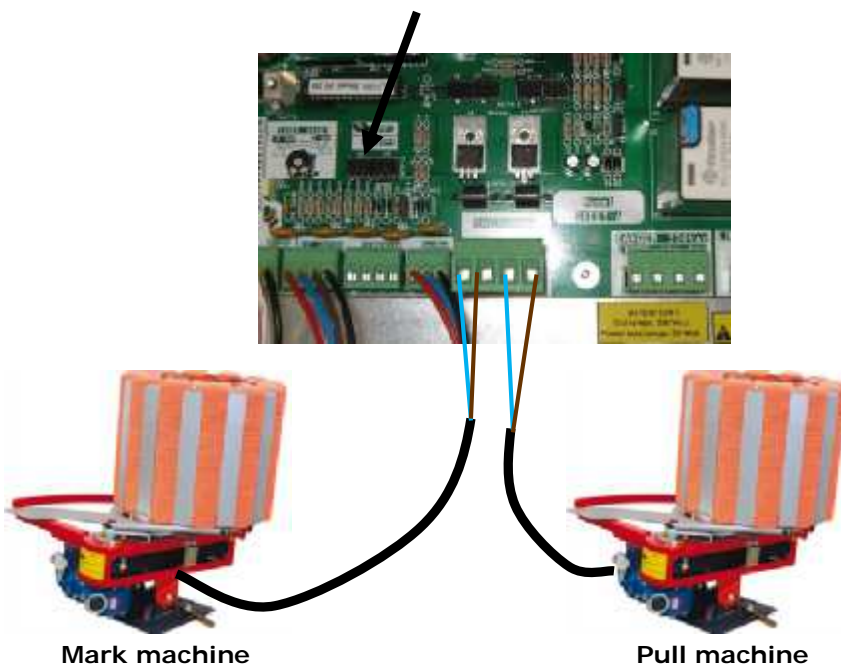


3.2 CONNECTION THE TARGET RELEASE MACHINES

The MACHINE can be connected in different ways, depending on their power (Check the required type of connection in the manual of the target release machine). The time required by the coil is usually 250 mS, but some machines need instead a longer time (for example air mode with electric chokes), so it's possible to have a time of 500 mS closing the TP1 bridge on the board.

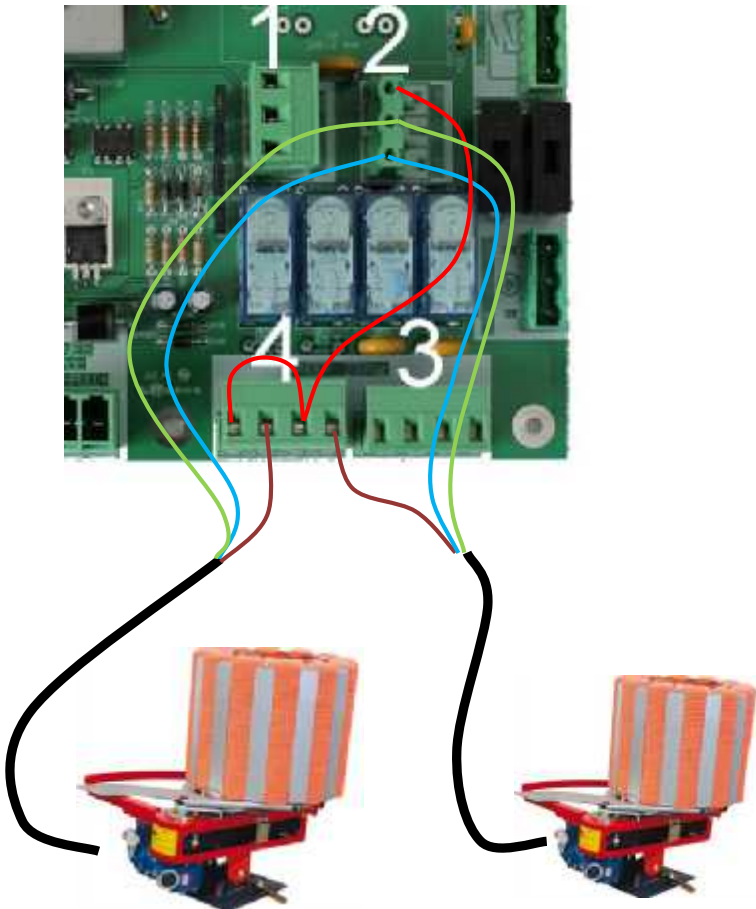
3.2.1 Machine with 12/24Vdc 5/10 A Coil or Relay

The equipment is created to control directly the release coils of 12 or 24 Vdc through a positive input; to connect the most distant machine to the cupboard, it is necessary a cable with the proper dimensions (at least 4 mmq), in order to avoid delays in the release.



3.2.2 Machines whit 12/24 Vdc or 230 Vac Coil or air machine with solenoid valve

if you need a power source of 220 Vac (max 2A), the connector 2 is to be used, or if you need a power source 12/24 Vdc (max 1A), the connector should be used 1

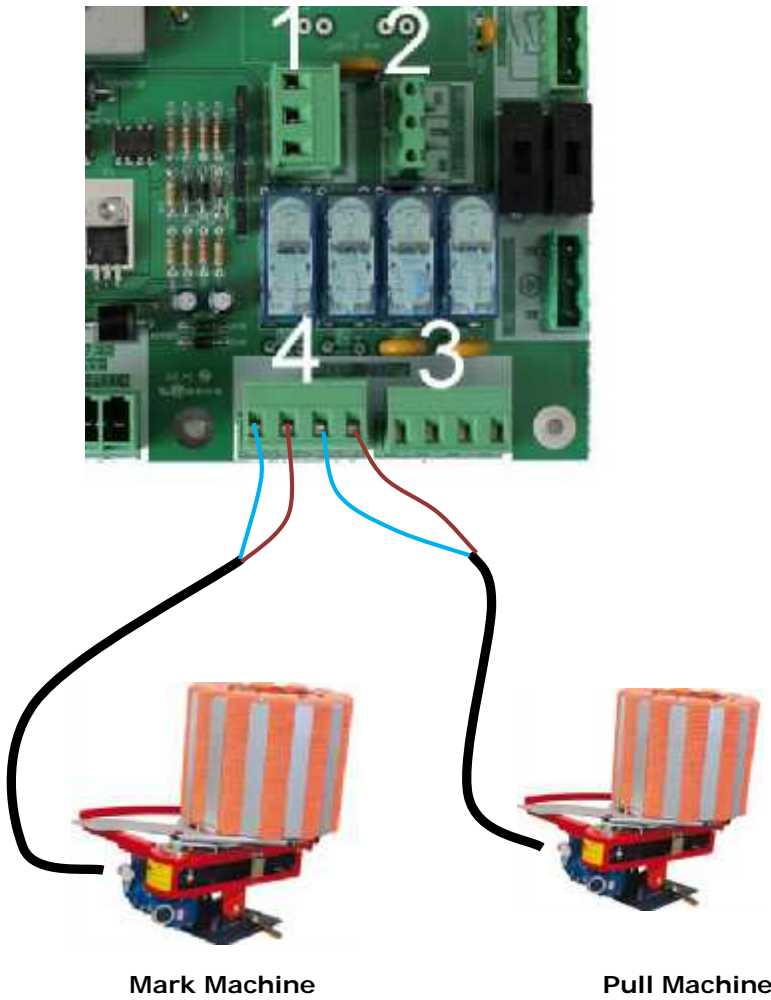


Mark Machine

Pull Machine

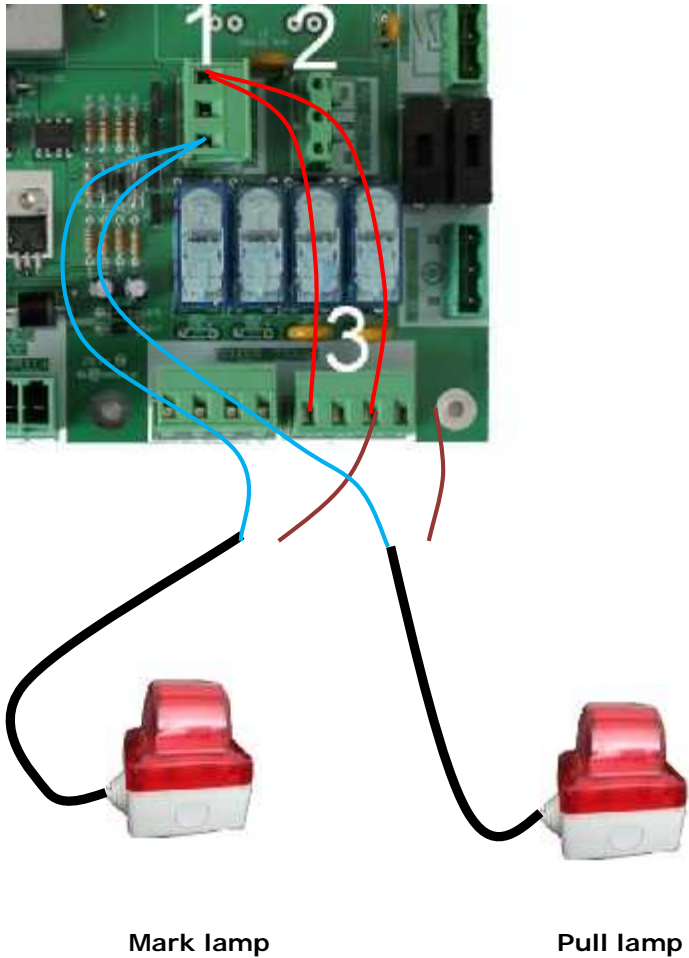
3.2.3 Machines with button release

If the machine is equipped with its own power supply, and requires a button to release, you must use only the connector 4 (max 5A switc)



3.3 CONNECTION TO THE LAMPS

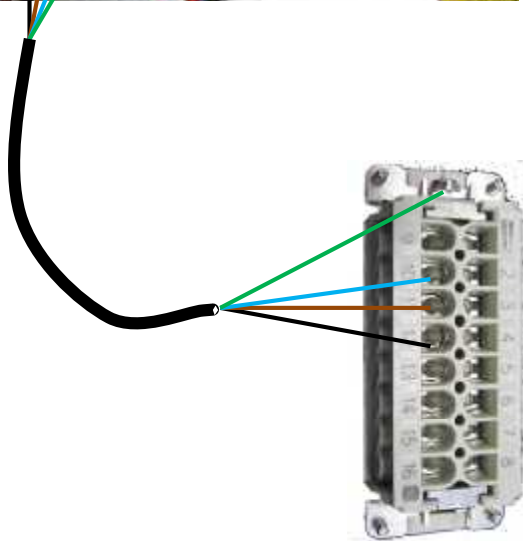
The lamps can be connected in different ways, depending on their power; You can use the internal power source 24 Vdc 1A (connector 1 and 3) or 230Vac 2A (connector 2 and 3); or you can use an external power supply, 5A max (only connector 3)



3.4 CONNECTION TO THE SEQUENCER

If the customer possesses our automatic sequencer, it is possible to connect it to the unit for an automatic management of the release sequence.

For the connection a 4 poles cable of 1 mm² is required; the numbers on the board correspond to the numbers of the machine connector in the sequencer.



3.5 CONNECTION TO ACCESSORIES

The accessories are provided already with the cables and have to be connected directly to the plugs on the inferior side of the power supply. The aerial has to be fixed outside the cabin, on the side of the stations.



Aerial push-button token machine
panel

3.6 CONNECTION TO THE POWER SUPPLY

Once the customer has completed all the connections, he has to close again the cover and tighten the four screws.

Near the power supply unit there must be a "shuko" plug with a differential and magnetic-thermic protection.

Connect the power supply plug and everything is ready to work correctly.

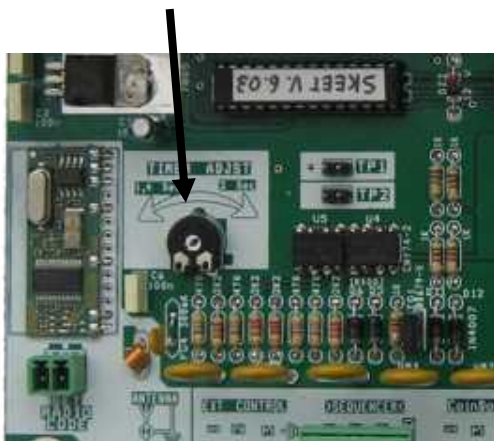
4. INSTRUCTIONS

Set the power supply switch "MAIN" in position ON and check if the power supply light is on. All the release buttons (manual, radio or sequencer) work correctly and independently.

4.1 USE WITH MANUAL KEYBOARD

The manual keyboard allows the direct or delayed control of the machines; when the switch of the cover is on "DIRECT" position using a button the machine releases directly, while when the switch is set on "DELAY" position the target release machine releases with a 0-3 seconds delay.

The maximum delay time can be set through a trimmer, which is on the board inside the power supply unit. Acting on this trimmer the maximum time can be reduced till a minimum of 1-4 seconds. The maximum delay time works also on the radio control.



4.2 USE WITH RADIO (only on predisposed models)

Before using the radio, it is necessary a transmitter, which you want to join to this equipment (usually we provide you the most suggested one); you can join till 8 transmitter.

4.2.1 Association of a "SKEET" transmitter

To associate a "SKEET" transmitter, it is necessary to press and keep pressed the button "PROGRAM" , which can be found on the inferior part of the unit and then press a button in the transmitter, (press a button also in the other eventual transmitters); finally you can release the button "PROGRAM".

4.2.2 Association of a "HUNTING" transmitter

To associate a "HUNTING" transmitter, it is necessary to press and keep pressed the button "PROGRAM" , which can be found on the inferior part of the unit; now through the keyboard press the button related to the machine which has to suit (pull, mark, double) and then press the button in the transmitter which you want to join to this machine; repeat this proceeding to suit the other machine or the double. At the end you can release the button "PROGRAM".

ATTENTION: Keep pressed the button "PROGRAM" till when all the associations o the transmitters included at points 4.2.1 and 4.2.2 are completed.

This proceeding cancels automatically the associations made previously.

When "SKEET" transmitter is being used the delay time is managed directly by the transmitter (read the instructions of this product to select the delay) and the power supply trigger is excluded.

When "HUNTING" transmitter is being used, the release is always direct.

4.3 USE WITH THE SEQUENCER (if present)

The control through a sequencer is completely automatic and all the functions of the timer and token machine are excluded. Look at the manual of the sequencer to know about its settings.

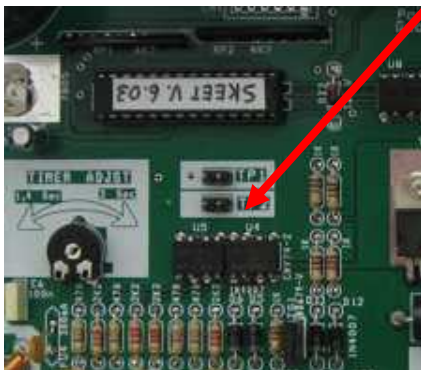
5. USE WITH THE TOKEN MACHINE

When a token machine is connected to this equipment, the releases are controlled by it and cannot block its functioning if there is no credit left (the functioning with the sequencer is never blocked instead).

At the first insertion of the token machine, a connection between the token machine and the equipment is established, so that the skeet is set to work only with the token machine inserted. After this association, if the token machine is taken away, the power supply unit is blocked.

Therefore to use again the equipment without any token machine, before removing it, the customer has to set in free mode (read the manual of the token machine).

In an emergency case it is possible to set again the free mode, opening the cover and creating a bridge between the little pickets of TP2 for some seconds.



6. SOLUTIONS TO POSSIBLE PROBLEMS

Here follow some cases, where there can be found some problems in the functioning of the " Skeet Manual Unit/ Skeet Unit with Radio Control"; the customer can solve these problems by themselves:

Type of Problem	Possible cause	Solution
The unit doesn't turn on	Absent or interrupted electric power supply	Check if the electric connections are correctly made
		Check if the switch is set in the position ON
		Check the fusible on the board
While the ordinary functioning, the unit switches off	Interrupted electric power supply	Check the presence of electric power supply
		Check the status of the components connected to the power supply
The unit is on, but the machine doesn't release	Wrong connections	Check if the connections between the unit and the machines have been correctly done
		Check if the Target release machine works correctly
	Block in the token machine	Follow the proceeding at point 6
	Radio	Check the transmitter and the aerial

For other problems and if you don't manage to solve the problems above, ask some skilled workers for help.

7. ELIMINATION OF THE PRODUCT

When you don't want to use the product "Skeet unit" and you want to eliminate it, it's suitable to make it inoperative, disconnecting the Skeet Unit from the power supply circuit.

It's absolutely forbidden to disperse this product in the environment.

For the disposal of the product, take it in the proper ecological platforms or give it to special recycling firms.



DECLARATION OF CONFORMITY



The Firm **ELFIPA S.n.c.**

P.zza XXIV Maggio, **6** – 31040 Gorgo al Monticano (TV)

Dichiara sotto la propria responsabilità che:

the Product

SKEET UNIT SKEET UNIT WITH RADIO CONTROL

Models: **CSM01 – CSR02**

to which is referred this Conformity Declaration CE, has been planned and built, according to the following Community Directives:

- Electromagnetic Compatibility Directive (EMC) 89/336/CEE
- R&TTE Directive 1999/5/CE
- Machines Directive 98/37/CE

In particular, the following harmonized norms have been applied:

CEI EN 61000-6-3 ; CEI EN 61000-6-1 ; CEI EN 55022 ; CEI EN 61000-4-3 ; CEI EN 61000-4-2

Therefore the Product above-sued can be considered properly done to guarantee the safety of things and people, provided that it has been installed correctly, following what it's written in the Operating Instructions.

N.B. It's not allowed to make the product working till the machine in which the product is integrated, is not identified and declared conforming to the Directive 98/37/CE

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