SIX MONTHLY CHECK-OUT

THIS CHECK-OUT PROCEDURE SHOULD BE PERFORMED EVERY SIX MONTHS FOLLOWING SYSTEM INSTALLATION INSTRUCTIONS OR WHENEVER CHANGES ARE MADE TO THE SYSTEM (POSSIBLY AT EACH ESPE CONFIGURATION CHANGE).

Check-out procedure has to be performed by qualified personnel respecting carefully the instructions provided in the specific chapters of the user manual (chap. 2; 3; 4; 5) and reference standards. A copy of the check-out form has to be kept on or near the machine or equipment where the ESPE is installed as detailed in the CEI IEC 61496-1: 2004 European Safety Standard.

WARNING !

BEFORE POWERING THE MACHINE INSTALLING THE ESPE VERIFY THAT THE AREA PROTECTED BY THE ESPE IS FREE FROM PERSONNEL AND UNWANTED MATERIALS.

FAILURE TO DO SO COULD RESULT IN SERIOUS BODY INJURY OR DEATH OF THE OPERATOR PERFORMING THE CHECK-OUT PROCEDURE.

This procedure must be carried-out in strict order as follows:

- Check for any obstructions in controlled area.
- Apply power to ESPE only.
- Verify that the LEDs on the receiver have the following status:
  a. NORMAL OP. (OSSD ON): LED already green
  b. INTERLOCK (OSSD OFF): Red LED on; yellow led on
  c. SAFE(BREAK) (OSSD OFF): red LED on

- If ESPE is in the NORMAL OP. condition proceed with the following step.
- If ESPE is in the INTERLOCK condition, after the closing (for at least 0.5 sec) of a normally open external contact (TEST/RESET button), after the RESTART procedure, the ESPE returns to SAFETY condition. We can now proceed to the following step.
- If ESPE is in the BREAK condition, one or more beams inside the controlled area have been or are interrupted. To correct this situation proceed as follow:
  i. verify carefully for any obstruction in the controlled area and remove them if necessary. For ESPE with manual restart go to point B;
  ii. verify that the two yellow ▲ LAST and ▼ SYNC alignment LEDs are off. If necessary repeat alignment procedure (refer to instruction manual “Alignment procedure”);
  iii. verify that the two emitting and receiving unit front windows are not covered by dust and dirt due. If necessary, clean them following the procedure described herinafter)

Do not continue until ESPE passes ALL tests listed above!

During the following tests take care not to expose operators to hazard !

Interrupt beams inside controlled are with specific “Test Piece” and verify that they are functioning correctly and do not require maintenance or replacement.

- Verify total machine stopping time. Using an instrument designed for this purpose, verify that the time is equal or less than the time specified by the machine manufacturer.

Do not continue to use the ESPE and the equipment until the check-out procedure is complete and all problems are corrected !

- If any decrease in machine stopping ability has occurred, make necessary adjustments/repairs, recalculate Minimum Safety Distance S (refer to instruction manual “Minimum installation distance” of user manual), record new value obtained and proceed with the checks described in paragraph B. “Periodical checks” of user manual.

- Verify MACHINE PRIMARY CONTROL ELEMENT (MPCE) and any intermediary controls (such as safety modules, control units, etc) to check that they are functioning correctly and do not require maintenance or replacement.

- Verify that the connections between MPCE and ESPE have not been modified which could jeopardise system functioning.

WARNING !

DO NOT USE MACHINE UNTIL SYSTEM IS WORKING PROPERLY. IF ALL OF THESE CHECKS HAVE NOT HAD POSITIVE RESULTS, DO NOT ATTEMPT TO USE ESPE UNTIL DEFECTS OR PROBLEMS HAVE BEEN CORRECTED.

ATTEMPTS TO USE THE MACHINE UNDER SUCH CONDITIONS COULD RESULT IN SERIOUS BODY INJURY OR DEATH OF OPERATORS.

DEVICE CLEANING

The 3G safety light curtains are composed of emitting and receiving units contained in sturdy yellow painted with IP65 protection. The front protection window is in PMMA. Emitters and receivers are best cleaned using cotton cloths damped with water. Avoid pressing on surfaces and thus to make them opaque.

Avoid using on plastic or painted surfaces:
- alcohol or solvents
- wool or synthetic cloths
- paper or abrasive material

ACCORDING TO 42/2006/EC: EC MACHINE DIRECTIVE

THIS DOCUMENT MUST BE ATTACHED TO THE TECHNICAL DOSSIER OF THE MACHINE WHERE THE ESPE IS INSTALLED.

A COPY OF THE CHECKOUT RESULTS SHOULD BE KEPT ON OR NEAR THE MACHINE.

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