

CG APPLICATIONS

CARLO GAVAZZI



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Market involved : Packaging & Wrapping

Product : NES Safety Modules

Customer : ---

Subject : Emergency stop and/or safety gate monitoring on cosmetic wipe packaging machine

CUSTOMER ISSUE :

Performing risk reduction in order to fulfill the safety standards when a machine is potentially dangerous for people. For example, if there is a high speed cosmetic wipe packaging machine, which dispenses a small volume of a cosmetic product onto a wipe and then packages the wipe in a sachet, it's requested to stop the dangerous movements by pressing one or more E-stop devices around the machine in case of danger or anomaly. In the same way, the machine has to be stopped when the protection gates are opened or removed. Of course, if the pushbuttons act directly on the power contactor of the machine without any other interfaces, a potential risk of faults is present in any case.

OUR SOLUTION:

Since the disconnection of the main circuit by inserting pushbuttons or switches is not enough to avoid single faults like the sticking of the main contactor, or the welding of the stop devices, a dedicated module that provides a reliable interposing relay function must be used.

NES safety module allows you to overcome all the risks associated with control circuit faults (E-stop and safety switch inputs), power circuit faults (outputs) and module internal component faults.

The unit has been designed on the redundancy and self-monitoring principle, to be therefore in compliance with the safety category 4.

ACHIEVED BENEFITS:

- The risk to man and machine is kept as low as possible, ensuring the max safety category with minimum space requirement.
- Saving cost in case of major accidents and major failures.
- Detachable terminals version to speed up the installation or replacement phase.

