

CG APPLICATIONS

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Market involved : Robotics – Automatic Soldering Cell

Product : SB4E series

Customer : ---

Subject : Safety light curtains robotics safeguarding without external control unit

CUSTOMER ISSUE :

Access to the automatic soldering cell must be protected with devices rated in safety category 4, according to relevant safety Standards.

The side in front of the soldering cell is safe-guarded with safety light curtains featured by hand resolution, to make safety distance between dangerous zone and safe equipment the shortest possible.

Customer wants to avoid the adoption of the external safety module to keep as low as possible safety equipment cost, without any reduction in terms of safety and reliability of the solution.

OUR SOLUTION:

SB4E Safety light curtains series is provided with External Device Monitoring (EDM).

The EDM function allows to control, directly through the safety light curtain, the external device status, generally final switching devices or primary command elements of the machines.

This function is particularly useful when the safety light curtain is not connected to machine stopping circuits using self-controlled safety relay modules, but using force guided relays whose malfunctioning, if not detected, can jeopardize the safety of the machine.

ACHIEVED BENEFITS:

- Assurance of the safety level required by the application
- Cost reduction
- No need of external control module

