

# CG APPLICATIONS

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**Market involved :** Packaging

**Product :** SB4L series

**Customer :** ---

**Subject :** Pallettizer safeguarding

## CUSTOMER ISSUE :

Dangerous zone of conveyor belt outlet from automatic packaging machinery must be protected with safety devices, typically light curtains, according to relevant safety Standards.

Pallets moving on the conveyor belt have to pass through the sensing field without causing a stop signal to the guarded machine.

On the opposite, if anybody passes through the sensing field, the machinery must stop.

A quick procedure must allow to restart the system, in case of objects stuck in the sensing field of the light curtains or in case of anomaly or failure in the system.

Installation and wiring must be quick and easy.

## OUR SOLUTION:

SB4L Safety light curtains series is provided with built-in, pre-assembled and pre-aligned Muting sensors housed in a muting bar, for unidirectional Muting. The horizontal Muting bar, is featured by vertical adjusting along the device slot, with an angular regulation of  $\pm 8^\circ$ .

The cabling with the light curtain is ensured by a M12-5 poles connector.

As the pallet obscures the Muting sensors, a Muting request is activated and accepted according to the light curtains control logic; no alarm signal is generated and the conveyor keeps moving the pallet. On the opposite, if anybody cross the light curtain from the external side, a stop signal is generated and the machinery is stopped in safe conditions.

Dip-switches placed on board make quick and safe the configuration of the SB4L series for Restart mode (auto / manual), Muting time-out and EDM. The wiring box CON-BOX allows to further simplify cabling and is used for Start/Reset functions and Override procedure, which is used to restart the system in case of anomaly or material permanently breaking infrared beams of the light curtain.

## ACHIEVED BENEFITS:

- Easy and quick installation, cabling and alignment
- Flexible in different applications, thank to adjustable Muting bars
- Configurable Start/Restart mode, Muting time out, EDM
- Override function easy to operate
- Compact dimensions

