



whitepaper

Protection of palletizers for sacks with the problem caused by the protruding seams and labels

To achieve high flexibility of the safety system of the plant, the light curtains and muting sensors used are handled by the Mosaic Safety Controller.

This solution allows you to easily adapt the safety system on the plant and guarantees compliance with the regulatory requirements on Muting sensor geometry and all other safety-related parameters, as per IEC TS 62046 and other current standards.



Request

Protect palletising systems for sacks or in any case of material not easily stacked, with the presence of seams, labels and protrusions that may randomly change the geometric shape of the pallet and thereby cause false signals from the sensors.





Achievement

To realize the protection system are used:

- ADMIRAL or VISION light curtain of any protected height and resolution
- 2 additional L Muting arms **SLA** (cod. 1330920) for one-way openings with pallet exit; or, for two-way openings with pallet entrance/exit: 4 additional T Muting arms **STA** (cod. 1330921)
- MOSAIC **M1** safety controller(cod. 110000)
- M12 5 poles female connectors with various cable lengths - type CD5, CD10, etc..

One-way openings with pallet exit

The sensors are on the same side of the vertical light curtain and are placed in front of the guarded opening.

The Muting function is activated following concurrent interruption of the 2 sensors within a programmable sensor time. This time can be set through the Mosaic's parameter: *Sensor time (from 2 sec. to 5 sec.)*.

Muting function remains active as long as both sensors remain occupied.

When the first of the 2 sensors is cleared, the material has a programmable time to abandon the guarded area delimited by the light curtain. This time can be set through the Mosaic's parameter: *End of Muting time (from 2,5 sec. to 6 sec.)*.

The Muting condition will be disabled as soon as the protected area is cleared. If the light curtain is still occupied, the OSSD outputs are disabled, interrupting functioning of the machine.

Using the Mosaic's parameter: *Blind Time (from 250 msec. to 1 sec.)* it is possible lengthen the time within which the light curtain, even though resulting occupied (detection of labels, seams, etc.), do not go into alarm and stops the machine.

The maximum duration of the Muting condition (timeout) can be set from 10 seconds to infinity, using the Mosaic's parameter: *Timeout*.



One-way openings

Two-way openings with pallet entrance/exit

The Muting sensors are the first on one side and the second on the other in relation to the vertical light curtain.

The Muting function is activated following concurrent interruption of the 2 sensors within a programmable sensor time. This time can be set through the Mosaic's parameter: *Sensor time* (from 2 sec. to 5 sec.).

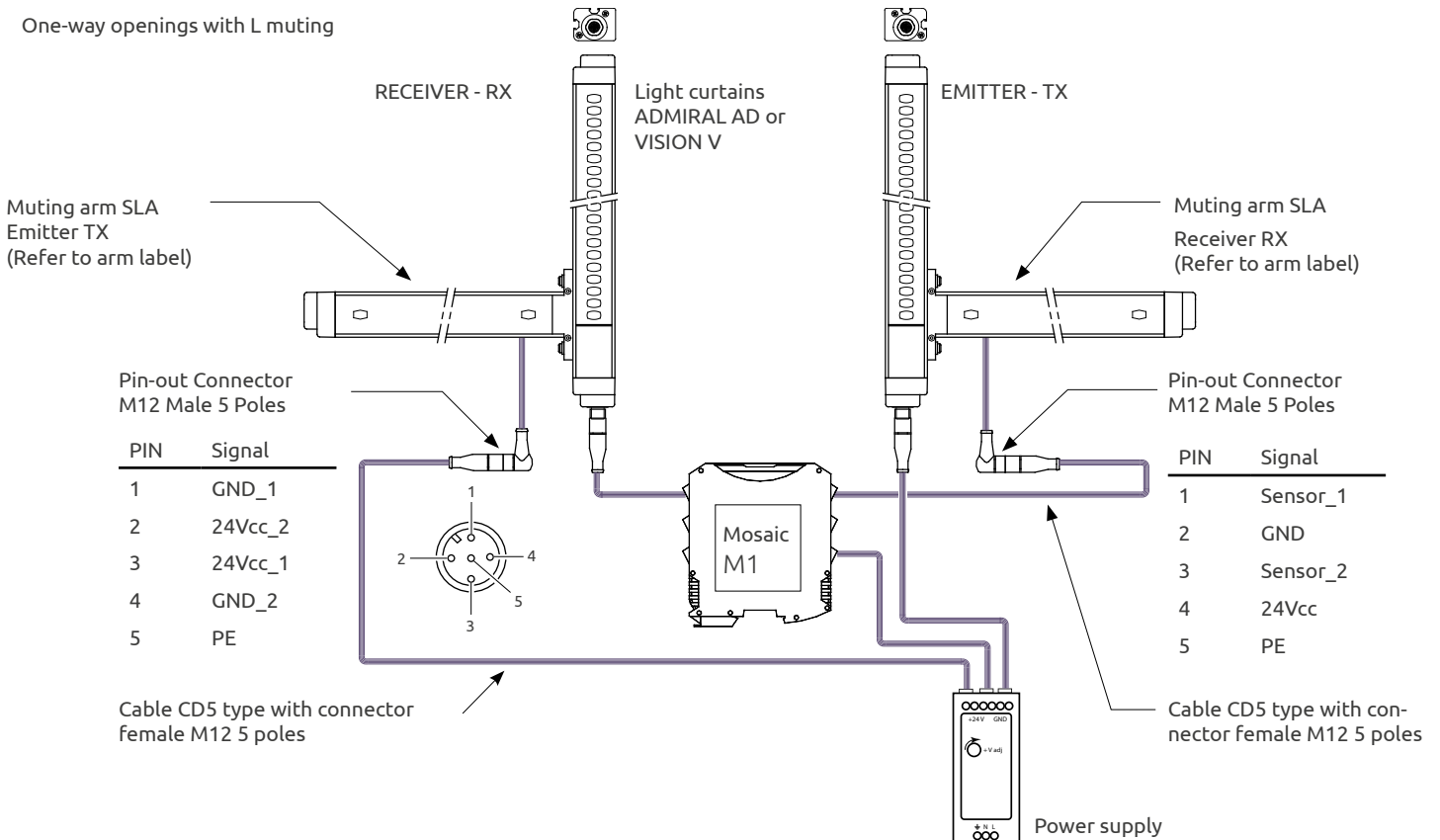
The Muting function remains active as long as both sensors remain occupied. When the first of the two sensors is cleared, the Muting function is disabled.

Also for this system, the maximum duration of the Muting condition (timeout) can be set from 10 seconds to infinity, using the Mosaic's parameter: *Timeout*.

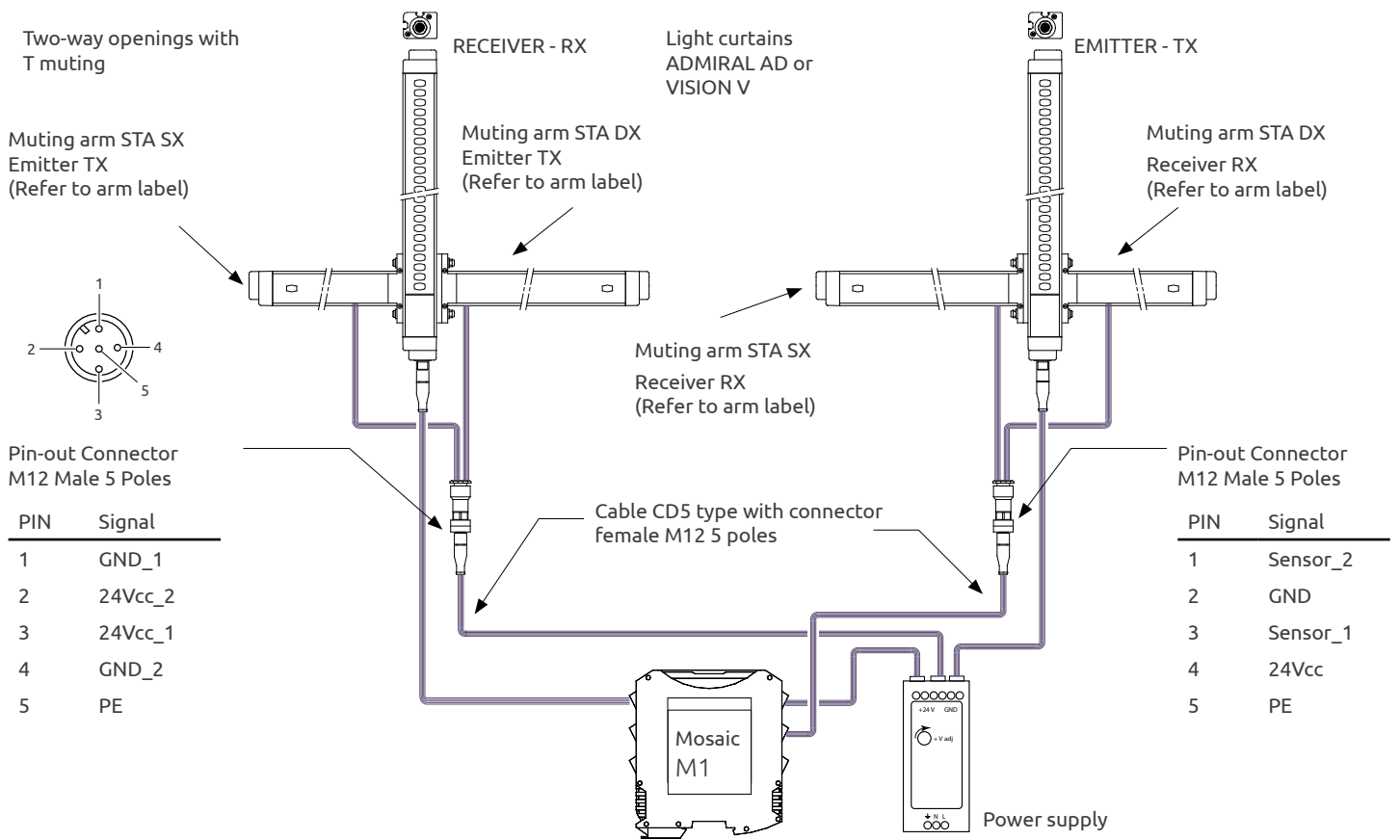


Two-way openings

One-way openings with L muting



Note: Pay attention to the mounting arms: on the light curtain receiver must be mounted the arm transmitter and vice versa.





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Code	WP AN 04
Product	Admiral - Vision - Additional arms for L or T Muting (SLA o STA) - Mosaic Controller
Data	04-06-2016
Application	Protection of palletizers for sacks with the problem caused by the protruding seams and labels
Object	To achieve high flexibility of the safety system of the plant, the light curtains and muting sensors used are handled by the Mosaic Safety Controller.