TagDetector Plus

TAGITALIA
RFID System & Technologies

Hazardous Area Monitoring and Control

- CONVEYOR BELTS
- PRODUCTION AREAS
- CONTAMINATED AREAS
- CHEMICAL AND EXPLOSIVE PRODUCT WAREHOUSES
- CONSTRUCTION SITES











Tag Detector Plus is a monitoring and control system based on RFID technology. Using the same concept as more known Telepass for Highway applications, Tags are used to increase efficiency in safety systems for employees in Hazardous Areas.

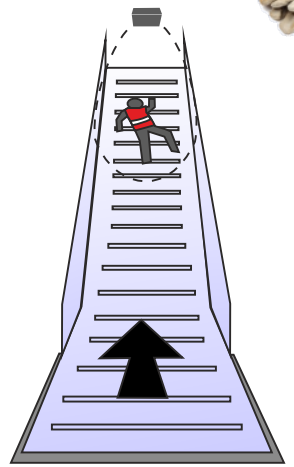
Tag Detector Plus uses a TagMaster LS series RFID Reader to detect man presence in a specific area and **immediatly communicate** the information to Host or **send an alarm** command to controlled devices

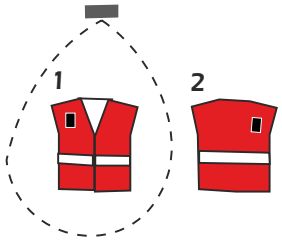
Tag Detector Plus allow different functions for a wide range of applications:

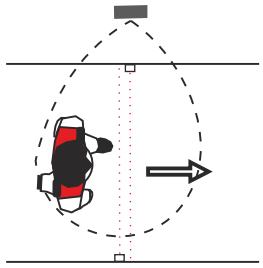
- **TAG TEST** verifies tha Tag are correctly working before an operator starts his job session in hazardous areas;

- **AREA ACCESS CONTROL** is used for dynamic access control and presence control for restricted and dangerous areas;

- **SAFE STOP** is a real time control for hazardous areas and is able to immediately stop the controlled system when a Tag is detected.









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SAFE STOP



Safe Stop option for Tag Detector Plus uses a Sacrificial Tag for diagnostics on top of the Reader. The Reader continuously checks Sacrificial Tag to veryfy the system is correctly working.

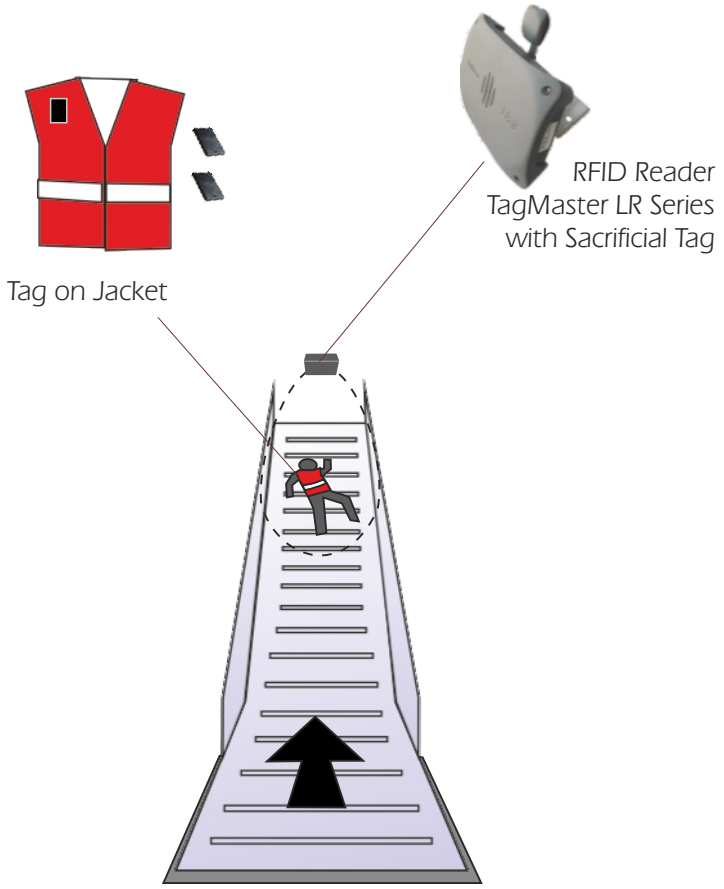
Safe Stop ensures a real time control in a specifica area to detect **high risk** eventsand avoid dangerous situations with emergency stop of the machinery and signaling.

The reader is installed in the dangerous area of the machinery. A relay output is available to allow emergency stop for controlled devices.

If **Sacrifical Tag** is not detected the relay immediately stops the devices; a fault is occurred to the control system and is very dangerous operate in this condition.

If the Reader detect a different Tag than the Sacrificial Tag the relay immediately stops the controlled device; No operators must be in the field of view of the reader.

⚠ NOTE: Safe Stop and Tag Detector Plus cannot replace rmandatory safety devices, but It can raise the safety control level of the system.



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TAG TEST

Tag Test option is used to verify that Tags installed on the Jacket of operators are OK and esnure the Tag Detector Plus system is correctly working.

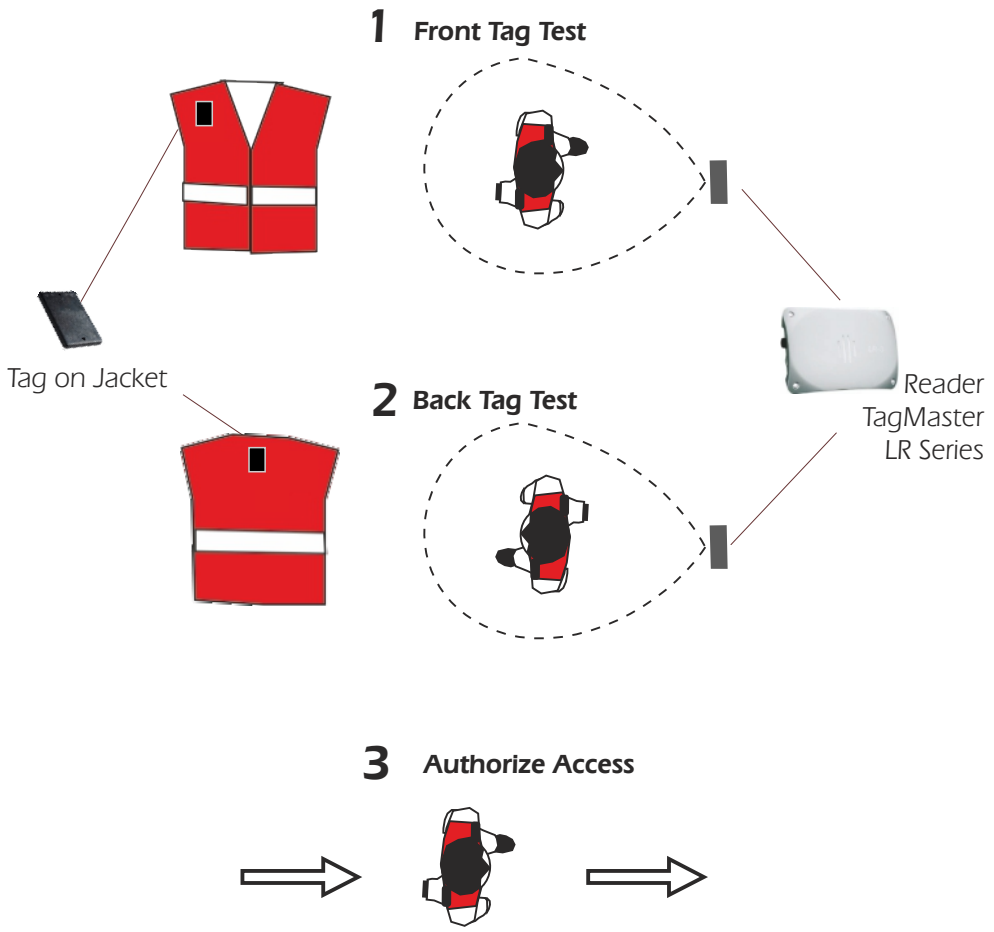
A Reader is usually placed in the changing room and workers must check Tags showing them to the device.

If Tags are OK the reader will blink a green light and signal with a particular buzzer sound.

The Reader can detect when Tags are in **Low Battery** condition: multiple buzzer sounds can be heard and a red ligh will be shown.
This to signal tha worker is not allowed to his job until the Tag has not been **replaced**.

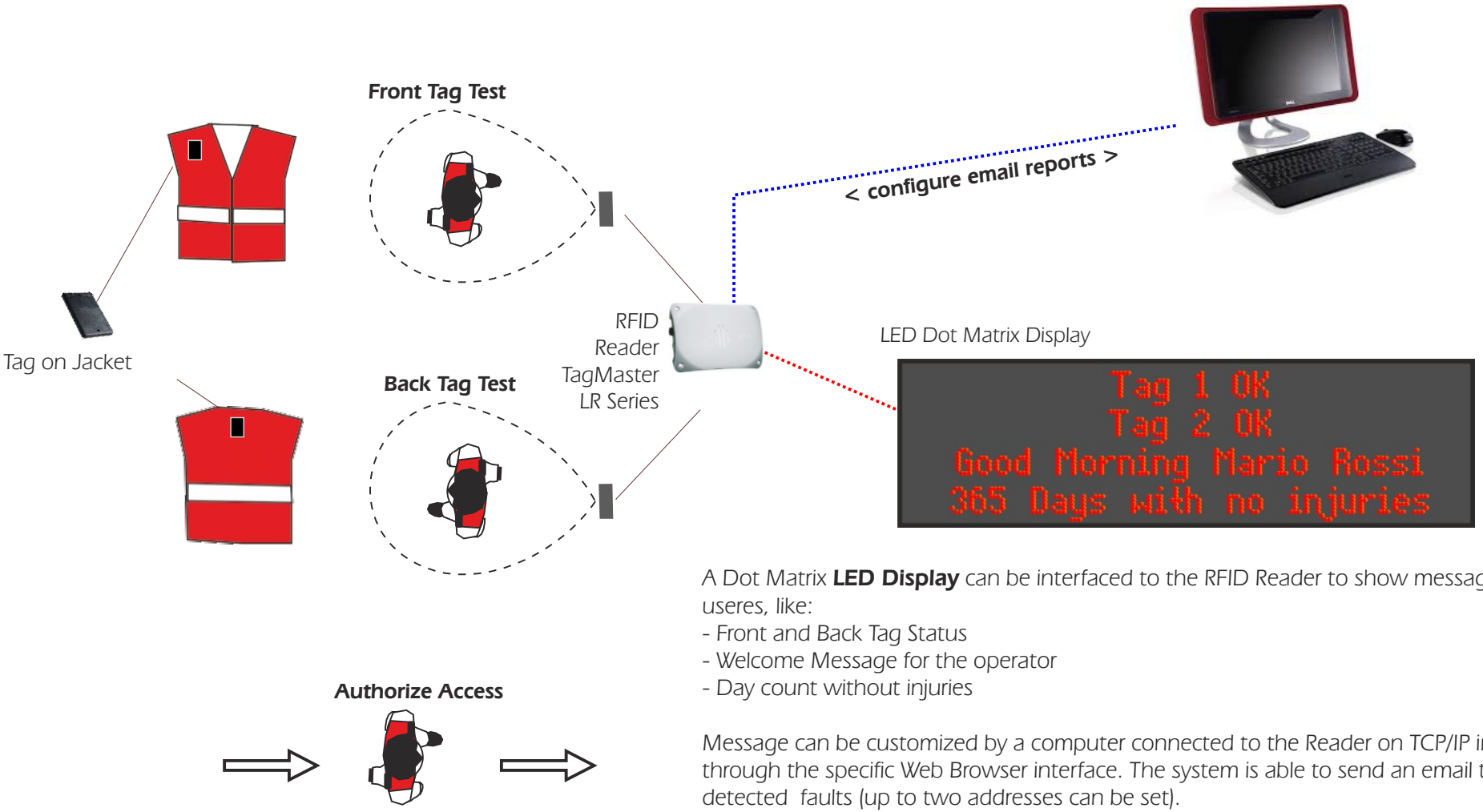
If no Tag are detected (Discharged Battery or Damaged Tag) the jacket or Tag must been replaced.

Only if both front and back Tags are correctly detected the operator is allowed to access to the work area.



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TAG TEST DISPLAY



A Dot Matrix **LED Display** can be interfaced to the RFID Reader to show messages to the useres, like:
- Front and Back Tag Status
- Welcome Message for the operator
- Day count without injuries

Message can be customized by a computer connected to the Reader on TCP/IP in a LAN through the specific Web Browser interface. The system is able to send an email to notify detected faults (up to two addresses can be set).