



Productivity with RF Tags solution



General Vision

Problem: Inaccuracy in the light polycarbonate lens system through robots.

Solution: Automatic programming of robots through RF tags in stands and readers in the production line.

Advantages: Elimination of trashing by wrong identification.

Benefits: Robust solution, extremely hostile environment, compact and that attends to usability requirements with accuracy and security.

Target: Industry.

Valeo guarantees production quality and productivity with RF tags solution

One of the solutions implemented by ACURA Global allows for automatic programming of robots through RF tags in stands and readers in the production line.

Valeo is an independent industrial group, formed entirely in the conception, production and sale of its components, integrated systems and modules for the automobile industry especially for CO² emission reduction. Valeo is among the first automobilistic parts' manufactures worldwide. The group owns 110 plants, 21 Research Centers, 40 Development Centers, 10 distribution platforms and the company is responsible for 57,300 jobs in 27 countries.



Ideal Products for the Solution



500.175 - AP-30 RFID Reader

The AP-30 is part of AcuProx Reader product line for access control. It is suitable for applications that use cards and tags operating at 125 kHz. Presents modern design, which allows its use both internally and externally, attached to the wall. Its highlight their reading distance of up to 40 cm.

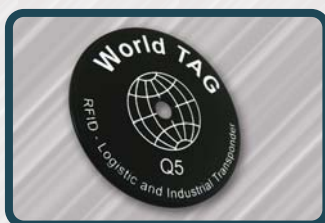
For more information about this product, [click here](#).



500.492 - AcuProx Multitag Reader

The AcuProx MultiTag TWN3 reader is able to read and write a large variety of tags 125 kHz in the market, making it a versatile tool for reading, writing and configuration tags.

For more information about this product, [click here](#).



500.055 - WorldTag Q5 - 30 mm

Durable and resistant, the World Tag Q5 - 30 mm can be used in the most diverse industrial and logistic applications. It shows great reading performance. Recommended for applications that use 125 kHz readers.

For more information about this product, [click here](#).

About the Solution

The Client: Valeo is an independent industrial group, formed entirely in the conception, production and sale of its components, integrated systems and modules for the automobile industry especially for CO² emission reduction. Valeo is among the first automobilistic parts' manufactures worldwide. The group owns 110 plants, 21 Research Centers, 40 Development Centers, 10 distribution platforms and the company is responsible for 57,300 jobs in 27 countries.

Proposed Challenge: The line of light lens painting receives material from two injector lines, which may change during the production. For this, each lens is put on a cradle which pushes in front of the robot, which has to identify it to execute the correct painting program according to the piece's geometry. The existing identification system, based in optical sensors, failed constantly,

which ended up in wrong programming of the robot which wrongly painted the light lens.

Equipment: AP-30 reader, MultiTag reader, WorldTag Q5 30 mm tags, Altus PLDC, Lamix display.

Solution: Automatic programming of robots through RF tags in stands and readers in the production line.

Features / Practical improvements: After an analysis of the existing system, we decided to switch it for an Altus PLC which reads the tags coming from the PA20 and converts it to robot code, instructing it to execute the right program. A display shows the tag queue which enters the painting chamber.

Gains / Benefits: Decrease the quantity of rejected parts.

ACURA has a focus on the market of general identification, with emphasis on RFID (radiofrequency identification), providing RFID Tags (Transponders), Proximity Cards, RFID Readers and Data Collectors.