

TIN DETECTOR  
MANWOOD 25-N

GLASS  
TIN SIDE DETECTOR

# EQUIPMENT

**helios quartz**





# GLASS TIN SIDE DETECTOR

The glass plates obtained from the "float" process usually have a "clean" face, otherwise called the "air side", and a face covered with a thin tin film called "tin side".

In the glass industry, glass sheets are commonly used in the mirroring, lamination and screen printing processes and for the production of artistic glass products, such as tables, chairs, sinks, etc.

The glass sector operators showed therefore the need to distinguish the "air side" of the glass sheet on which to perform the processes mentioned above, since, if these processes occurred on the "tin side", they would compromise both the processing quality and the duration and conformity of the product itself.

Helios Quartz, thanks to its strong experience in the glass industry, has developed the best quality control solution for all operators in the glass industry by offering them "tin side detectors" suitable both for the need of a manual control and for the need to install a detector directly on the mass production line.



# AUTOMATIC TIN DETECTOR

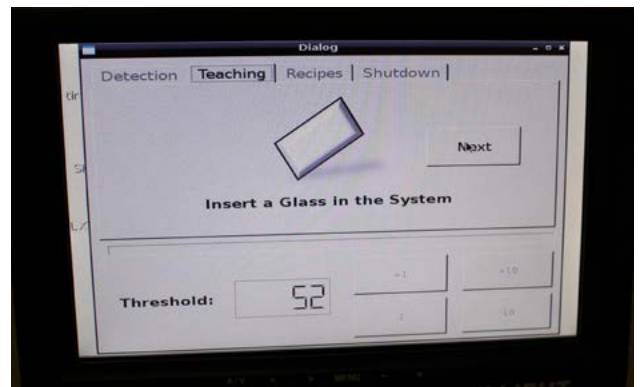
AUTOMATIC TIN DETECTOR is a device developed by Helios Quartz to meet the demand of customers, usually large glassmakers with in-line processes, who want the certainty that the whole processing is made

The device, although based on the same technology of the manual device Manwood 25-N, is able to detect autonomously the presence of the tin side or the air side of float glass sheets. It is usually mounted above the glass sheets on the conveyor belt before entering the furnace and it scans all the glass sheets that will enter the processing stage.

The device is designed to interface directly with the production machinery control panel, instantly signalling with a green LED if it scans the air side; while, if it scans the "tin side" a sound signal and a red light indicate an alarm, stopping the production line and thus allowing the operator to place the glass plate in the correct position.

The AUTOMATIC TIN DETECTOR is an extremely reliable indicator of glass sheets tin side and it provides the certainty of constant monitoring the materials used in the production process, by eliminating any possible human error even in the presence of dark glass and / or anti-reflective glass.

Helios Quartz produces in-house all the tin side detectors and guarantees that all the components are always available in stock.

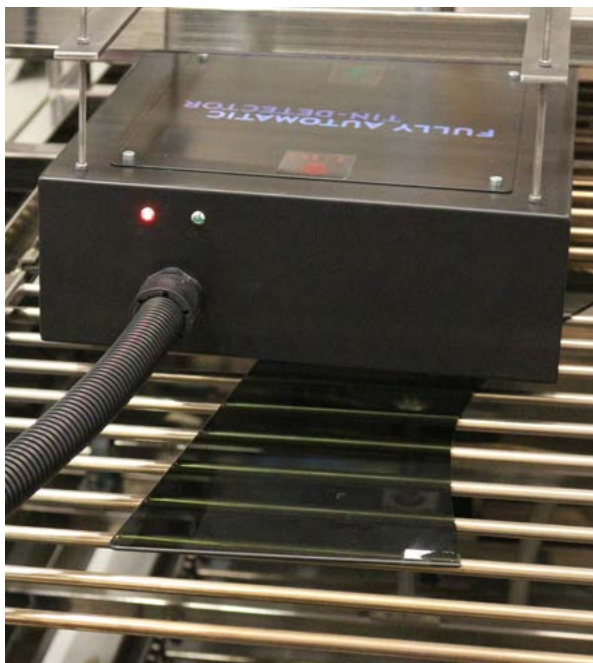




# MANWOOD 25-N

Manwood 25-N device is universally recognized as the most professional glass "tin side detector" available on the market. Conceptually, it exploits the phenomenon of fluorescence in materials subjected to a particular ultraviolet radiation, in order to identify the tin side of float glass sheets; in fact, it is enough to irradiate the glass plate and even the least experienced operator will immediately realize that one side of the glass sheet will turn to a milky colour (tin side) while the opposite side will keep its transparency (air side).

The MANWOOD25-N device produced by Helios Quartz was originally developed for scientific applications at Universities and in research centers, with particular attention paid to the materials used, to the design and to the compliance with safety regulations. For this reasons, compared to similar products available on the market, it stands out for its ease of use in any environment, for the clear feedback provided to the operator and for the opportunity to analyze even dark glass and low-E glass.



## MAIN APPLICATIONS

- Mirroring lines
- Glass Laminating lines
- Glass Screen Printing lines
- For the production of design and artistic glass products (ie. tables, chairs, sink, etc.)

## SIZES

**AUTOMATIC TIN DETECTOR** - Code 86L00012  
 SENSOR CONNECTION CONTAINER SIZES: 44x32x12h cm  
 WEIGHT: 5 kg  
 CONTROL PANEL SIZES: 44x32x19h cm  
 WEIGHT: 9 kg

**MANWOOD 25-N** - Code 86L00007  
 SIZES:  $\varnothing$  6,3 x 27,5 cm (filter: 18 x 5 x 2,5h cm)  
 WEIGHT: 0,7 Kg

ALL MANWOOD 25-N and AUTOMATIC TIN DETECTOR devices are manufactured according to CEI standards 62/5 and follows the following standards EN-61000-3-2; EN-61000-3-3; EN-55014; EN-5001







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