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Press Release PR-32

About a perfect design detail of avancon

Example of a perfect designed detail for a high economical functionality!

Avancon conveyors use polycarbonate for their light barrier housings, combining durability and clarity. These barriers save up to 84% in energy, allow pressure-less accumulation (ZPA), and streamline system efficiency by eliminating the need for central control cabinets. Each zone is monitored by an adjustable light barrier, ensuring protection and ease of maintenance. This design minimizes pinch points and underscores Avancon's commitment to efficiency and safety.



People who need to wear glasses for improve vision or sunglasses to protect for the sun wear today glasses made of Polycarbonate, because they are light weight (less than the half of normal glass), impact resistance, do not discolor and are crystal-clear. They are ideal if you have an active lifestyle or need safety glasses for work or leisure.

In the Avancon conveyor concept we use exactly the same amazing transparent material for our housings in the light barriers, which exist of a photoelectric sensor and an opposite installed reflector/mirror.

The light barrier is an indispensable component for all Avancon conveyors. It saves at least 30 % partly up to 84 % energy and at the same time enables pressure-less accumulation (ZPA) at any desired position in an Avancon conveyor system and thereby allows a self-controlled system. This in turn makes the whole system very economical, because it eliminates the need for a central control cabinet and any need to lay cables.



All light barriers of a subsystem communicate with a master and signal whether a zone is occupied or empty. This enables conveying without the conveyed goods touching each other.

Each zone of the Avancon ZPC (Zone Powered Conveyor)-concept is monitored by a light barrier. The photoelectric sensor is snapped into a polypropylene holder which is combined with a crystal-clear polycarbonate housing and easily snapped into the conveyor frame.

This special housing can be adjusted from the outside in two directions using a small hexagonal spanner: upwards or downwards and sideways, whereby the operator can observe whether the light falls on the center of the opposite mirror.



The photoelectric sensor and the opposite mirror are smoothly protected against dust and scratches by this crystal-clear window. From the outside, only this discreet window is visible, resulting in a smooth conveyor profile in which all elements and cables are perfectly installed and integrated.

This window can be easily cleaned from outside.

At avancon conveyors, there are no protruding elements, eliminating pinch points throughout the system. This attention to detail extends to all patented components and functions of the Avancon ZPC Conveyors, emphasizing our commitment to efficiency and safety.

More information about our photosensor: <https://www.avancon.com/controls.html>

About Avancon: Avancon is a renowned leader in providing innovative conveyor solutions that prioritize simplicity, efficiency, and reliability. With a comprehensive range of conveyor concepts for systems catering to various industries, Avancon aims to reshape the conveyor market and drive optimized productivity while reducing operational costs. Avancon products are available through conveyor producers or integrators.

For the editors:

- You can download **this report in PDF format** as well as photos in 300 dpi for printing or for the Internet as *.jpg format in 72 dpi from our website at: <https://www.avancon.com/press.html> -> **PR-32**

- If you have any questions, please contact: media@avancon.com

- Further information can also be found and mostly downloaded from our website: <https://www.avancon.com> .

- Without title, footnote and abstract, this report has 375 words and 2411 characters (including spaces)