

Smoke Detector 500 series: A unique solution for Delphia Yachts environmental condition



BOSCH

Invented for life

Industry:

Industrial

End User:

Delphia Yachts, Olecko

Delphia Yachts, one of the biggest yacht shipyards in Poland, producing sailing yachts and motorboats of different categories, is selling its products all over the world. It has been a stable job provider for most of the residents in the Olecko area for many years. The whole shipyard consists of three manufacturing halls, a warehouse connected with offices and one gatehouse. All buildings, especially the manufacturing halls, had to be equipped with smoke detectors.

Business Objective:

It was the aim of Delphia Yachts to install fire detectors in the whole production site providing highest detection performance and quality standards in order to safeguard the complete production process of these luxury yachts and motorboats. Due to a manufacturing process developing a high amount of dirt and dust the company has a special need for the use of fire detectors guaranteeing a fail-safe operation even in a harsh environment. Highly flammable materials used for production demand highly reliable and sensitive detectors. In addition, in order to avoid false alarms in a dusty and dirty surrounding it was also required that those detectors are easy to clean. Moreover, the production process shouldn't be interrupted during the installation of the fire alarm system.

Solution:

The environmental conditions in the secured facility have been the greatest challenge while designing and installing the whole project. During the production process materials with different fire hazards are used. Most of the materials such as wood and technical acetone as well as packaging material like foils are inflammable and make it very challenging to secure the production process. Thus, highly reliable detectors with different core features and a high detection performance had to be chosen.

During the production process in some manufacturing halls a gel coated dust evolves. Hence, it was very important for the company to secure those halls and to reduce the number of false alarms. Due to the fact that conventional detectors cannot differentiate dust from smoke it was important to choose flat optical-chemical smoke detectors, which have a chemical sensor monitoring two external light areas built-in for the early, reliable detection of combustion gases as well as no optical chamber inside so that no dust and dirt adheres. Moreover, intelligent detectors were wanted which are immune to dirt and dust. In this context, the level of dirt build-up is continuously measured by the detectors.



Yacht manufacturing at Delphia Yachts

As soon as units need to be cleaned a message is given. Due to the flat detector design, as there is no optical chamber inside the detector, easy cleaning becomes possible. Another advantage is that the detector can be exchanged with minimal effort utilising the new push/remove systems.

Result:

Delphia Yachts has equipped the manufacturing halls and offices with more than 200 highly sensitive, reliable and easy to clean Smoke Detectors 500 Series from Bosch. Thus, the advantage of a high-performance fire detection system minimizing the effort of extra service time and costs as well is given. The core of the fire alarm system is the Modular Fire Panel 5000 Series.

Furthermore, several other peripherals like Fire Detectors 420 Series from Bosch have been installed at Delphia Yachts manufacturing sites as well.

According to the customer the installer company "PW Janrom" performed these tasks in a very professional and reliable manner. They "didn't cause any inconveniences or interruptions in the production process during the realization of the project in our production facility. Thus, we would like to recommend the company "Janrom" as a solid and reliable partner, which provides products and services of the highest quality."

Installed by:

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