

Southeastern Pennsylvania Transportation Authority to Install Tram Forward Collision Warning from Bosch to entire fleet

Warning system alerts tram drivers to obstacles to help support passenger safety and route efficiency

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- ▶ SEPTA fleet features more than 100 trams and serves four million people in five counties
- ▶ Expansion project will implement Bosch system in entire existing trolley fleet
- ▶ The Bosch tram warning system: a radar and camera-based driver assistance system, which can enhance safety and minimize operational disruptions
- ▶ The system warns the driver about obstacles on the rails so drivers can aim to avoid accidents, or at least limit the effects

Detroit – The Southeastern Pennsylvania Transportation Authority (SEPTA), which serves a region of nearly four million people in Philadelphia and its surrounding counties, plans to deploy the tram forward collision warning system (TFCW) from Bosch across all trams in its entire trolley fleet. The plan to deploy to the entire SEPTA fleet follows a successful pilot program that began in 2022 to initially test the collision warning system in four SEPTA tram vehicles.

The Bosch TFCW utilizes a multipurpose camera and mid-range radar sensor aiding drivers in reducing accidents. Especially in congested traffic or poor visibility conditions, the system warns the driver about obstacles on the rails, so the driver can aim to avoid accidents, or at least limit the effects. Ultimately, the warning system helps improve safety and increase the availability of trams by avoiding closures and tram repair.

“We’re honored to provide an important safety solution to SEPTA’s full trolley fleet,” said Joe Capuano, Regional President of Bosch Engineering in North America. “There are over 50 cities across more than 12 countries that have Bosch tram forward collision warning system installed, and we’re excited to expand this fully to southeastern Pennsylvania.”

The Bosch TFCW has more than a decade of experience in rail sector application, and this latest SEPTA fleet installation will be complete by June 2026.

The TFCW can be integrated as a stand-alone product or combined with other solutions from the Bosch tram assist suite for complementary safety implementations. Learn more about the Tram Forward Collision Warning System at www.bosch-engineering.com/stories/collision-warning-system.

Press photos are available on the Bosch Media Service at us.bosch-press.com.

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About Bosch

Having established a presence in North America in 1906, today the Bosch Group employs more than 41,000 associates in more than 100 locations in the North American region (as of Dec. 31, 2024). According to preliminary figures, Bosch generated consolidated sales of \$17.4 billion in the U.S., Mexico and Canada in 2024. For more information visit www.bosch.us, www.bosch.mx and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 417,900 associates worldwide (as of December 31, 2024). According to preliminary figures, the company generated sales of 90.5 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 86,900 associates in research and development, of which nearly 48,000 are software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com.

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