

PRESS RELEASE

Programmable Control Unit – Multi-Talent for Vehicle Applications

- **Compact control unit with flexible programming**
- **Cost-effective solution thanks to modular design**
- **Future applications for the visual perception of autonomous vehicles**

Esslingen / Landau, 3 June 2019 – **Variably applicable in the vehicle and even smaller than a car key: the Programmable Control Unit (PCU). Thanks to variable design and programming, Eberspächer enables an autarkic control for additional vehicle functions. The compact control unit provides interior lighting dimming in passenger cars and commercial vehicles and even guarantees increased safety on the road as a reverse warning system. Depending on the requirements, the micro controller can also be programmed for other applications, vehicle types and, in the future, for example, for the visual perception of autonomously moving cars.**

Thanks to its relay plug-in housing with 6.3 mm flat connector, the Programmable Control Unit can be used in various vehicle types. In delivery trucks, for example, it ensures just the right lighting for loading: in the early hours of the morning when it is still dark outside, the first parcels are loaded in the depots. The interior lighting helps drivers load their freight and read address labels when it is delivered. All of this can be traced back to the compact control unit. By dimming the lighting in and out, it also extends the lights' service life.

A true all-rounder

Depending on the application, the PCU can be used for rotating beacon on construction site or emergency vehicles, as controls for hydraulic lifts in commercial vehicles, or as reverse warning systems on forklifts. With the CAN/LIN variant, the compact unit can also

be used as a gateway. "One future application lies in controlling LEDs outside a vehicle, allowing autonomous vehicles to communicate with their environment. Cars could send signals by flashing or changing colors to indicate they are driving autonomously or will stop for pedestrians," states Dr Massimo Venturi, Vice President of the Automotive Electronics Business Unit. Thanks to its versatile equipment options and software programming tailored to the situation, Eberspaecher's micro-controller-based solution can be used in a wide range of applications, offering vehicle manufacturers a flexible and cost-efficient control unit. The PCU also meets interior environmental requirements (IP40) and is validated to LV 124. With its switching systems and control units, Eberspaecher offers automobile manufacturers flexible solutions for reliable vehicle electronics.

Caption:

- *Eberspaecher's Programmable Control Unit can be used in many different ways in the vehicle.*

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About Eberspaecher:

With approximately 10,000 employees at 80 locations worldwide, the Eberspaecher Group is one of the automotive industry's leading system developers and suppliers. The family business, headquartered in Esslingen am Neckar, stands for innovative solutions in exhaust technology, automotive electronics and thermal management for a broad range of vehicle types. Eberspaecher components and systems provide more comfort, greater safety and a cleaner environment on or off the road. In 2018, the Group generated revenue of around 4.6 billion euros.

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