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Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit

pif.sagepub.com

doi: 10.1243/PIME_PROC_1995_209_252_02

Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit **January 1995** vol. 209 no. 1 **33-38**

Fail-Safe on-Board Databus for Automatic Train Protection

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Abstract

The Eurocab project defines an automatic train protection (ATP) architecture which supports different signalling systems. To this purpose, ATP devices on-board a locomotive are connected by a serial databus. Due to the real-time requirements, this bus has to guarantee fast and deterministic response times. Due to safety requirements, this bus has to provide a high data integrity. Since the bus is not considered able to be trusted, safety applications have to implement a safe user layer on top of the usual bus protocols.

automatic train protection railway signalling safe data transmission vehicle bus train communication network

Received June 22, 1994.
Accepted February 2, 1995.

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