

# Computer Assisted Diagnosis of Automatic Signalling Installations with Blinking Red Lights

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**Abstract**— This work presents a modern method for the diagnosis of railroad level crossing automatic signalling installations. The method proposed here is based on diagnosis diagrams designed by the authors. The diagrams cover all failure types that can occur for these types of installations. The diagrams were, then, used to create a diagnosis software package, which can rapidly and securely determine the failure cause. The computer assisted diagnosis reduces train traffic delays and fewer train traffic redirects are needed, diagnosis errors are practically eliminated. The software can run on any Windows or Android based computing systems.

**Keywords**— diagnosis, diagrams, software, automatic signalling installations, maintenance staff.

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