



Assessment Certificate

This is to certify that the development process of the undernoted product has been assessed with satisfactory results in accordance with the relevant requirements in the undernoted standards.

This certificate is issued to:

Manufacturer

Wavetrain Systems AS

ADDRESS

*P.O. Box 23,
N-1324 LYSAKER,
NORWAY.*

Assessed product	Sensor Unit as part of the WTS Level Crossing Warning System; LCWS version 1.4.
Application	Sensor Unit
Assessed standards	CENELEC EN50126:1999 (IEC62278), EN50128:2011 (IEC62279) and EN50129:2003 (IEC62425).
Achieved Safety Integrity level (SIL)	SIL 4
Limitations and Application conditions	See Appendix 1
Assessment report	The assessment is documented in report no. 104683_R5
Certificate No.	150007/TA
Issue Date	16.09.2016
Expiry Date	NA
Sheet	1 of 2

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Appendix 1

The scope of assessment and the limitations of liability are stated in the contractual documents.

Safety Related Application Conditions (SRAC) is documented in report no. 104683_R5.

This Assessment Certificate is valid under the following conditions:

1. The Safety Related Application Conditions identified by Wavetrain Systems during the risk analysis process must be handled as part of the Generic and/or the Specific Application for Level Crossings. Safety Related Application Conditions are documented in report no. 104683_R5.
2. One single Sensor Unit does not comply with the THR-requirements for a SIL4-system. To achieve a Sensor Unit System compliant with the THR-requirements for a SIL4-system, multiple Sensor Units are required.
3. The Sensor Unit is part of the LCWS System and requires a Main Assembly Unit and the LCWS Application Software to form a Level Crossing Warning System.
4. Any modification of the system that has any effect on Safety must be assessed and approved by the Independent Safety Assessor to retain the assessment certificate.