



Nº 2025/CCS/GP/207-002

THE APPLICATION FOR
ELECTRONIC BLOCK LOGIC MODULE (EBLM)

RELEASE

1.0

Developed By

Deltron Equipment & systems Pvt. Ltd.

Has been evaluated by **Bureau Veritas Inspección y Testing, S.L. Unipersonal**

Bureau Veritas Inspección y Testing is an Inspection Body accredited by ENAC with identification Nº 1/EI530 according to ISO/IEC 17020:2012 to perform Independent Safety Assessment according to CENELEC standard and Risk Evaluation and Assessment according to Common Safety Methods for railway subsystems of Energy, Rolling Stock and Control, Command and Signalling, Infrastructure and Safe Integration.

Applicant (Name): **Deltron Equipment & systems Pvt. Ltd.**

Address: **26, Convent Road, Kolkata-700014**

Branding Name **Electronic Block Logic Module (EBLM)**

Type **Generic Product**

Application description: **The Electronic Block Logic Module (EBLM) is one of the subsystems in Block Proving with Axle counters using UFSBI as per RDSO Specification IRS-S-105/2012 Ver.0 or later. It's goal is to replace the Relay Interlocking Logic, using hardware based electronic logic in accordance with Cl. 3.8.1 of IRS-S 105/2012 Ver. 0 for both Single and Double Line Block Operations.**

Referenced Standard for assessment: **CENELEC EN 50126-1:2017, EN 50126-2:2017 and EN 50129:2018 AC:2019**

Versions covered by the approved type: **Single Line : DESBPACBLMv1: D01H01 and Double Line : DESBPACBLMv2: D01H01**

Assessment Report: **28-X95-1-12378412-1001-5 R2**

Assessment result **Electronic Block Logic Module Generic Product Safety Case "EBLM Safety Case" version 1.2 provides sufficient demonstration that the Electronic Block Logic Module meets all safety requirements, and that the requirements themselves are appropriate. It has been demonstrated that Electronic Block Logic Module fulfils the requirements of a SIL 4 system for the safety functions identified with no other conditions than those indicated in the Electronic Block Logic Module Generic Product Safety Case "EBLM Safety Case" version 1.2 and Electronic Block Logic Module Safety Related Application Conditions version 1.1. EBLM has also passed successfully the System Field Tests (Parallel, Series & Standalone for both the Single and Double line systems) Reports as per IRS: S-105/2012 Ver.0.**

This certificate shall be deemed to be void and the applicant shall alone bear any consequences pursuant to its use, in case of modification to the equipment where this may affect conformity with the essential safety requirements or the prescribed conditions for use of the equipment.

Made, approved and recorded in	On	Signed by (ISA Assessor)	Signed by
Madrid	February 25th, 2025		

This certificate is subject to the terms of BVIT Bureau Veritas Inspección y Testing, S.L. Unipersonal. General Conditions of Service.