

EP Assist System for 3 Phase E-Locomotive



Description : Electro-Pneumatic (EP) Assist System is an add on feature to existing brake system for enhancing brake performance.

EP Assist System regulates the brake pipe pressure by means of activating the EP valves, to charge and discharge the brake pipe pressure according to the energization of dedicated train lines.

EP Assist System regulates brake pipe pressure locally in each coach sensing electrical signal transmitted from locomotive.

It comprises of EP Rack, Indication panel, Test box, End junction, Central junction etc.

Application : 3 Phase Electric Locomotive

Customer : Indian Railways

Key benefits of product :

- EP Assist brake system in the train (Loco+Coaches) enhances the Brake application and release time thus reduced the stopping distance
- Reduction of stopping distance will enable the loco pilot to optimize the speed of the train.
- EP Assist Brake System will help customers to run the train with Zero lost punctuality and in fail-safe mode.

Specifications :

- RDSO specification : RDSO/EL/SPEC/2018/0138 rev. Rev. '0' APRIL 2018
- Operating voltage : 78 to 136 V DC according to EN 50155

Standards compliance :

- Shock & Vibration : IEC 61373 Category 1 Class A
- EMI/EMC : IEC 60571
- Environmental test : IEC 60571
- Electronic equipment : EN-50155
- Software : EN-50128
- IP : IEC 60529
- RAMS : EN 50126
- SIL : 2
- Functional Requirement : UIC 541-5





Transit

EP Assist System for Coach



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- EP Assist System regulates brake pipe pressure by means of activating EP valves, to charge and discharge the brake pipe pressure according to the energization of dedicated train lines.

- EP Assist System regulates brake pipe pressure locally In each coach sensing electrical signal transmitted from Locomotive.

- It comprises of Test box, End Junction box, Central Junction box.

Application : LHB Coaches

Customer : Indian Railways

Key benefits of product :

- EP Assist brake system in the (Coach) enhance the Brake application and release thus reduce the Stopping distance.
- Reduction of stopping distance will enable the Loco pilot to optimize the speed of the train.
- EP Assist brake system will help customers to run the train with zero lost punctuality and fail-safe mode.

Specification :

- RDSO Specification : RDSO /EL /SPEC/2018/0138 rev Rev. '0' APRIL 2018
- Operating Voltage : 78 to 136 VDC according to EN 50155

Standards Compliance :

- Shock & Vibration : IEC 61373 Category 1 Class A
- EMI / EMC : IEC 60571
- Environmental test : IEC 60571
- Electronic equipment : EN - 50155
- IP : IEC 60529
- RAMS : EN 50126
- Safety Integrity Level : SIL 2
- Functional Requirement : UIC 541-5

