



Prioritizing safety through protection & control



TPWS & AWS

Train Protection and Warning System & Automatic Warning System



Total control, monitoring and processing of TPWS and AWS function. ETCS ready.

Advanced signal processing techniques combined with high integrity components and assemblies.

Small, lightweight and reliable system that is both easy to install & maintain. Low installation and maintenance costs. Already installed and proven on major new UK projects.

ETCS ready : can be integrated with ETCS via simple hardwire interface, bespoke comms interface (serial, Ethernet, MVB) or as UNISIG compliant STM. Fully compliant with all standards.



Customer benefits:

- + Market leading reliability, availability, maintainability and safety
- + Supplied with DeBo and ISA certification for easy homologation
- + ETCS ready
- + Easy, low cost installation & maintenance
- + Railways standards compliance
- + Proven in service

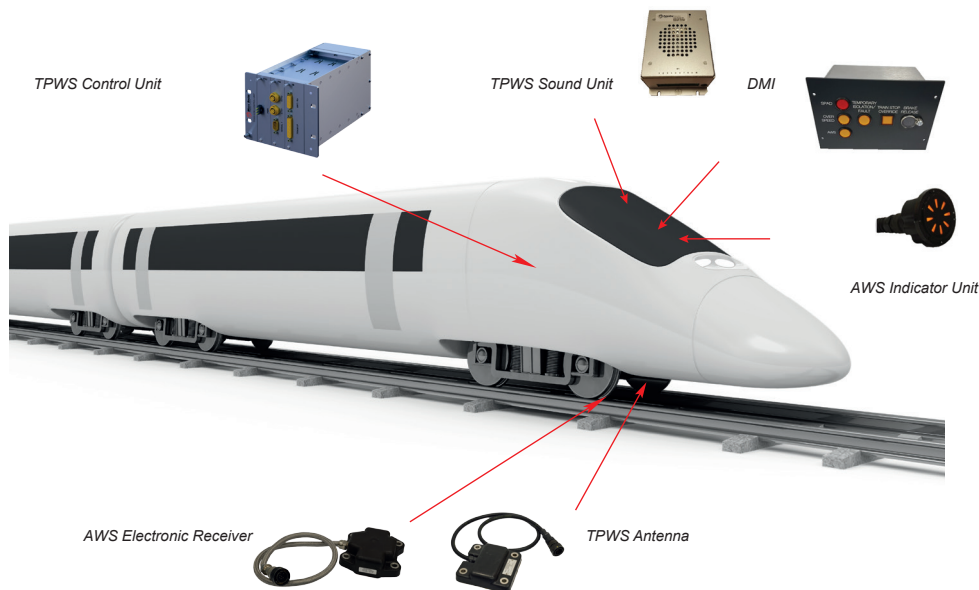


Credentials

- Bombardier Crossrail
- Bombardier London Overground
- Bombardier East Anglia
- Bombardier South West Trains
- Bombardier West Midlands
- Bombardier C2C
- Stadler East Anglia
- Stadler Mersey Travel
- TOTAL 1,116 Systems

References

- BS EN 50129:2003 - Safety related electronic systems for signalling
- BS EN 50155:2007 - Electronic equipment used on rolling stock
- BS EN 50128:2011 - Software for railway control and protection systems



System

TPWS Control Unit	IP 20
AWS Electronic Receiver	Connector: 19 pin CR series, shell size 22 (IP65)
TPSW Antenna	Connector: 19 pin CR series, shell Size 22 (IP65)
TPWS Sound Unit	Connector: 10 way PHEONIX 1793833, 1792708 (IP20)
DMI	Connector: M12 4P ethernet female, D-SUB 25 way female (IP20)
AWS Indicator Unit	Connector: Amphenol 62GB-12E12-10PN (IP20)

To discover everything TPWS / AWS can do, contact

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