



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.

ETCS ready: can be integrated with ETCS via simple digital hardwire interface, bespoke serial communication interfaces or a UNISIG compliant STM. Fully compliant with all standards.

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

Traditional driver machine interface (DMI) panel can be also presented as a touchscreen visual display unit that combines AWS/TPWS buttons, indicators and "sunflower" with train speedometer in the format of ETCS DMI.

### Cab Driver Interface and System Components:



**TPWS Control Unit** with multiple connection options



**TPWS Sound Unit** operator alarm with digital hardwire or serial interfaces



**AWS Visual Indicator "Sunflower"**



OR



**Driver Machine Interface "DMI"** in a panel option or digital visual display unit on a single touchscreen



**TPWS Antenna**



**AWS Electronic Receiver**



### Customer benefits:

- + Complies with UK railways standards GE/RT8075 issue 4 and RIS-0775-CCS issue 3
- + ETCS ready with specific transmission module (STM) interface
- + Ease of integration with TCMS and other
- + Supplied with DeBo and ISA certification
- + Easy, low-cost installation and maintenance
- + Small size and weight

Ready to show



Ready to quote



Ready to produce



In production

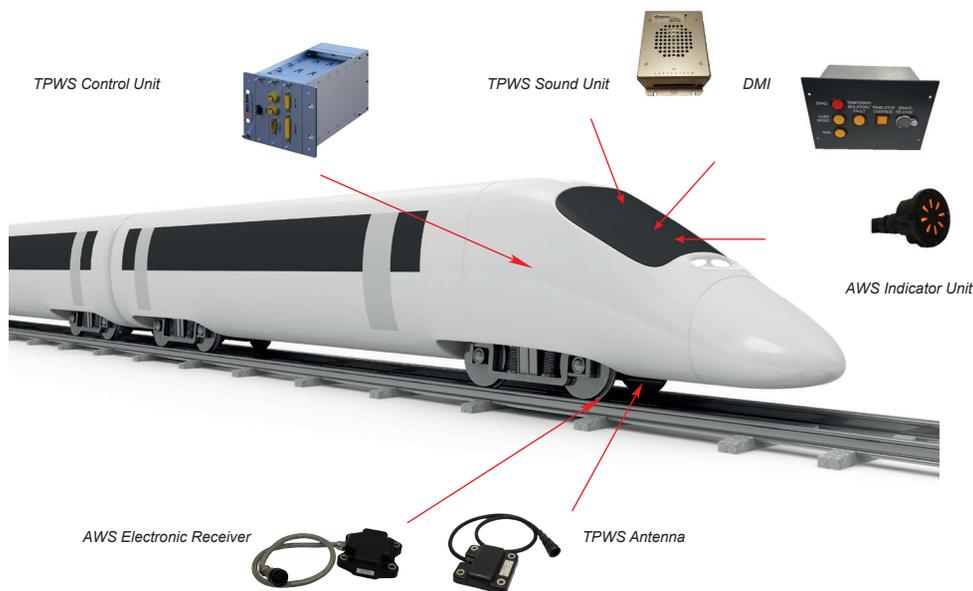


### Credentials

- Alstom Crossrail
- Alstom London Overground
- Alstom East Anglia
- Alstom South West Trains
- Alstom West Midlands
- Alstom C2C
- Stadler East Anglia
- Stadler Mersey Travel
- TOTAL 1,116 Systems
- Stadler Wales and Borders FLIRT
- Stadler Wales and Borders Train Tram
- Alstom Class 378 Heathrow Express

### 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



To discover everything TPWS / AWS can do, contact

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