

Comax Industrielle Signaltechnik AG – Thalstrasse 279 – 4712 Laupersdorf, Switzerland

Product(s): Speaker Audio Modules and Electronic Sound Generators

Type(s): ES52, ES53

Directive EN 50155:2022: Railway applications - Environmental conditions for equipment

Standards applied: EN 60068-2-1:2007 EN 61373 :2010
EN 60068-2-2:2007 EN 60068-2-64:2008/A1:2019
EN 60068-3-1 section one EN 60068-2-27:2009
EN 60068-2-30:2005
EN 60068-2

Directive EN 50155:2022: Railway applications - Electronic equipment used on rolling stock

Standards applied: EN 50121-3-2:2016+A1:2019 EN 61000-4-4:2012
EN 55011:2016+A1 :2017 EN 61000-4-5:2014+A1:2017
EN 61000-6-4:2019 EN 61000-4-6:2014
EN 61000-3-2:2014 EN 61000-4-8:2010
EN 61000-3-3:2013 EN 61000-4-11:2004+A1:2017
EN 61000-4-2:2009 EN 61000-6-4:2019
EN 61000-4-3:2006+A1:2008+A2:2010

Directive EN 50125 Railway applications - Electromagnetic compatibility

Standards applied: EN 50121-1/-2:2006 EN 61000-4-4:2012
EN 55016-1-1:2007 EN 61000-4-5:2014
EN 61000-3-2:2014 EN 61000-4-6:2014
EN 61000-3-3:2013 EN 61000-4-8 :2010
EN 61000-4-2:2009 EN 61000-4-11:2004
EN 61000-4-3:2006 + A1:2008 + A2:2010

Directive EN 61373:2010 Railway applications. Rolling stock equipment. Shock and vibration tests

Standards applied: EN 60068-2-64:2008
EN 60068-2-27:2009

Directive EN 45545-2:2013+A1:2015 Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components

Directive 2014/35/EU: Low Voltage Directive (LVD)

Standards applied: EN 60947-1:2007+A2:2014

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all components contained within are free from substances of very high concern.

Other Standards and Regulations

EN 60529:2014-09 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66
Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

On behalf of Comax Industrielle Signaltechnik AG, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This declaration is issued under the sole responsibility of the manufacturer.


Sven Friesecke
Managing Director

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