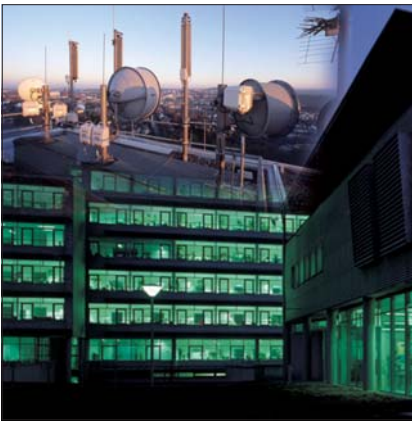




A New Lighting Experience



EMC Directive

Electronic Control Gears
RFI-suppressed up to 300 MHz

EMC – Change in Regulations governing Luminaires

EMC Directive 2004/108/EC and the EMC laws of the EU member states pursue the aim of ensuring electromagnetic compatibility of electrical equipment.

The topic of EMC not only covers electromagnetic disturbance, but also covers immunity against radio interference and protection against creating mains current and mains voltage irregularities. To ensure interference-free operation of various electrical and electronic devices at the same time, equipment must comply with limit values pursuant to emitted interference and must also satisfy minimum requirements regarding immunity to interference.

The specified protective goals must be met to ensure interference-free operation of devices. This is ensured by strict application of the European EMC standards and compliance with limit values governing lighting systems.

With amendment 1 of the seventh edition of CISPR 15, the frequency range for EMC assessments of luminaires has been extended to 300 MHz by the IEC. This extension applies to luminaires operated with electronic control gears and covers electromagnetic disturbance in the 30 MHz to 300 MHz frequency range. In addition, a new test method was developed and new limiting values were set.

For the European market these changes have been included in EN 55015 and apply to luminaires retailed as of 01.05.2010. Compliance with the respective limiting values is dependent on the use of electronic control gears that are designed to satisfy the requirements of the 30 MHz to 300 MHz frequency range.

Electronic control gears made by Vossloh-Schwabe have been developed or revised in accordance with the new provisions of the standard. When using Vossloh-Schwabe electronic control gears, luminaire manufacturers can therefore feel safe in the knowledge that their equipment conforms to the letter of the law.

The EMC quality of Vossloh-Schwabe control components is underscored by labelling the products with the VDE EMC marking of the Testing and Certification Institute of the VDE based in Offenbach, Germany.



This ensures that an independent body documents the compliance of control components with the EMC standards. When it comes to obtaining official approval for luminaires, manufacturers can benefit from the fact that the control components were already tested as it provides manufacturers with a simple and inexpensive certification of the luminaires with regard to the EMC requirements from national and international testing institutes.

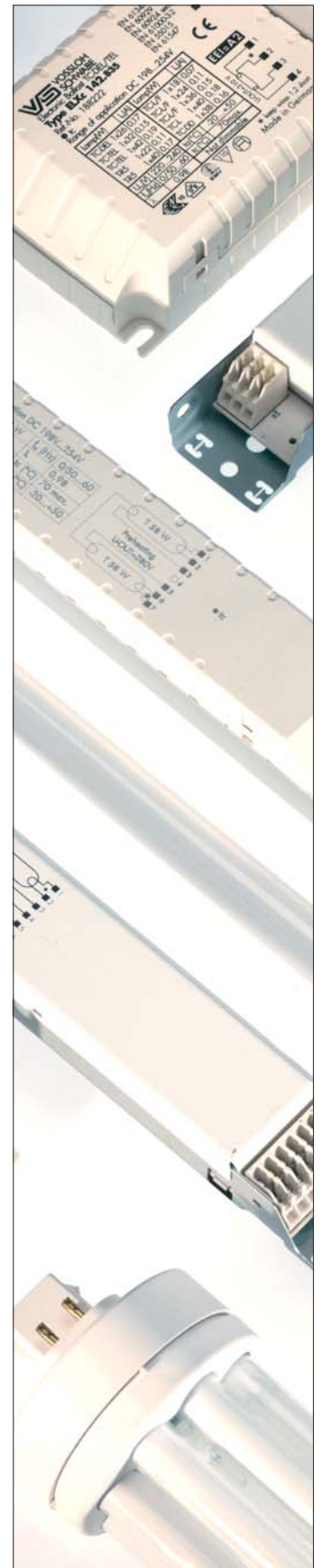
In addition to this, Vossloh-Schwabe's EMC laboratories, which have been certified by the VDE Testing and Certification Institute, provide the opportunity for the joint development of optimum technical solutions to minimize costs and manufacturing steps involved. Especially today in view of the energy-political reclassification of control components, cooperation can save costs.



Roundup of EMC-compatible VS Ballasts

Product family	Product type
T5 (HE, static)	ELXc 135.856
	ELXc 235.857
	ELXc 414.868
	ELXc 424.379
T5 (HO, static)	ELXc 149.858
	ELXc 249.859
	ELXc 154.864
	ELXc 254.865
	ELXc 180.866
	ELXc 280.538
T5 (dimmbale)	ELXd 124.607
	ELXd 224.608
	ELXd 324.623
	ELXd 424.624
	ELXd 139.609
	ELXd 239.610
	ELXd 249.614
	ELXd 154.611
	ELXd 254.612
	ELXd 180.613
T8 (static)	ELXc 280.630
	ELXc 136.200
	ELXc 136.207
	ELXc 136.216
	ELXc 236.202
	ELXc 236.208
	ELXc 236.217
	ELXc 336.214
	ELXc 158.201
	ELXc 158.209
	ELXc 158.218
	ELXc 258.203
	ELXc 258.210
	ELXc 258.219
	ELXc 170.205
	ELXc 270.206
	ELXc 418.204
	ELXe 218.526
	ELXe 238.527
	ELXe 258.222
T8 (dimmbale)	ELXd 418.215
	ELXd 118.615
	ELXd 218.616
	ELXd 318.622
	ELXd 318.627
	ELXd 418.625
	ELXd 414.629
	ELXd 157.722
	ELXd 257.723
	ELXc 113.392
CFL (static)	ELXc 213.870
	ELXc 213.874
	ELXc 217.873
	ELXc 218.871
	ELXc 218.875
	ELXc 128.869
	ELXc 140.862
	ELXc 240.863
	ELXc 142.872
	ELXc 142.876
	ELXc 242.837
	ELXc 242.877
	ELXc 254.865
	ELXc 155.378
	ELXc 257.836
	ELXc 170.833
	ELXc 120.838

Product family	Product type	
CFL (dimmbale)	ELXd 117.715	
	ELXd 217.717	
	ELXd 118.802	
	ELXd 218.803	
	ELXd 226.801	
	ELXd 142.806	
	ELXd 142.709	
	ELXd 242.807	
	ELXd 242.813	
	ELXd 157.812	
	ELXd 170.808	
	ELXs	ELXs 116.900
		ELXs 116.903
ELXs 117.908		
ELXs 121.901		
ELXs 121.904		
ELXs 124.902		
ELXs 124.905		
ELXs 126.906		
ELXs 126.907		
HID		EHXc 20G.329
	EHXc 35.325	
	EHXc 35.339	
	EHXc 35G.327	
	EHXc 35G.328	
	EHXc 235.316	
	EHXc 70.326	
	EHXc 70.340	
	EHXc 270.317	
	EHXc 150G.334	
Low-voltage Halogen Converters	EST 35/12.650	
	EST 35/12.349	
	EST 35/12.449	
	EST 60/12.635	
	EST 60/12.633	
	EST 60/12.388	
	EST 60/12.304	
	EST 70/12.380	
	EST 70/12.643	
	EST 70/12.601	
	ESTd 70/12.660	
	EST 70/12.618	
	EST 70/12G.302	
	EST 105/12.381	
	EST 105/12.644	
LED Converters	EDXe 110	
	EDXe 120	
	EDXe 130/24 V	
	EDXe 130/12 V - VDE	
	EDXe 170/24 V	
	EDXe 170/24 V IP67	
	EDXe 170/12 V	
	EDXe 170/12 V IP67	
	EDXe 1130/24 V	
	EDXe 1130/24 V IP67	
ECXe 350mA/...		
ECXe 500mA/16W		
ECXe 700mA/17W		
ECXe 1050mA/20W		
ECXd 700mA/34W		





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