

# CERTIFICATE

Issued to:  
Applicant:  
**Vossloh-Schwabe Deutschland GmbH**  
Stuttgarter Str. 61/1  
73614 Schorndorf, Germany

Licensee:  
**Vossloh-Schwabe Deutschland GmbH**  
Stuttgarter Str. 61/1  
73614 Schorndorf, Germany

Product : Electronic controlgear for LED modules  
Trade name(s) : VS LIGHTING SOLUTIONS or Vossloh-Schwabe Deutschland GmbH  
Type(s)/model(s) : ECXd (series)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6061104

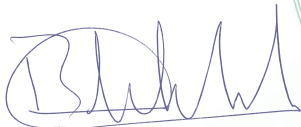
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 2 March 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-122834

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



MT Tonsi  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Electronic controlgear for LED modules
Trade name(s)	: VS LIGHTING SOLUTIONS or Vossloh-Schwabe Deutschland GmbH
Type(s)/model(s)	: ECXd (series)
Primary voltage	: 220-240 V for a.c., 189-250 V for d.c
Rated frequency	: 50-60 Hz, 0 Hz
Primary current	: From 0,18 to 0,2 A for a.c., 0,25 A for d.c
Power factor	: 0,95 (Pout≥15 W)
Type of load	: LED modules, power LED
Working voltage U-OUT	: 59 V
Rated maximum temperature (tc)	: 85 °C
Classification	: Independent or Built in, SELV output

**TESTS****Test requirements**

EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015  
EN IEC 62384:2020

**Test result**

The test results are laid down in DEKRA test file 350033600.

**Additional information**

DEKRA test report No. 3500336.570 and 3500336.571 are laid down in DEKRA test file 350033600; they contain test results. DEKRA test report No. 3500336.570 contains critical component list.

For specific Model/Type electrical rating refer to following page.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

The factory location is registered with the number 854975.

**General product information:**

The devices are controlgears for LED modules with stabilized output current (CC) depending on the selection of the DIP switch. Dimming features are detailed in the technical specification. All models have SELV output.

Type/s	a.c./*d.c. supply (V) [1]	Input current (A)	Power factor	Output power Po (W)	Output current (A)	Uout Umax d.c. (V)	ta (°C)	tc (°C)	Use [2]
ECXd 1050.299 186763	220-240	0,18-0,2	0,95 (Po≥15 W)	38	0,3-1,05	59	-25..45	85	II, 110, MM
ECXd 1050.299 186762	*170-280	*0,25					-25..50	85	DI, 110, MM

Notes: [1] – a.c. at 50-60 Hz; \*d.c. supply, see additional information for rated/operative range. [2] – II=independent, class II; DI=built-in with double insulation; 110= overheating protection (C.5.a type); MM=VDE 0710 T14.

**Connections**

Supply	L, N	screwless terminal block 0,5...1,5 mm <sup>2</sup> (0,75...1,5 mm <sup>2</sup> for independent models)
Control (if present)	DA	screwless terminal block 0,5...1,5 mm <sup>2</sup> (0,75...1,5 mm <sup>2</sup> for independent models)
Output load	SEC + -	screwless terminal block 0,5...1,5 mm <sup>2</sup>