



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX DEK 18.0018X	Page 1 of 4	<u>Certificate history:</u> Issue 2 (2020-06-30) Issue 1 (2019-12-04) Issue 0 (2019-07-15)
Status:	Current	Issue No: 3	
Date of Issue:	2020-08-07		
Applicant:	SIEMENS AG Östliche Rheinbrückenstraße 50 76187 Karlsruhe Germany		
Equipment:	Programmable Logic Controller Systems SIMATIC NET Scalance-W-M-WLAN Type RAP-W ..., LAP-W ..., 6GK. ..., ELN-..., MSN-..., EAPN ..., WS-..., RAPAC-..., W7..		
Optional accessory:			
Type of Protection:	Ex ec		
Marking:	Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-08-07

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **SIEMENS AG**
Östliche Rheinbrückenstraße 50
76187 Karlsruhe
Germany

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR19.0048/03](#)

Quality Assessment Report:

[NL/DEK/QAR12.0079/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

SIMATIC NET Scalance-W-M-WLAN Type RAP-W ..., LAP-W ..., 6GK. ..., ELN-..., MSN-..., EAPN ..., WS-..., RAPAC-..., W7..

Modules which contain optical radiation sources complies with Class 1 limits in accordance with IEC 60825-1 and therefore allowed to lead either into or through hazardous areas requiring equipment of EPL Gb, Gc, Db or Dc.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from Table 1, see Annex.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from Table 1, see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in a suitable enclosure that provides a degree of protection not less than IP54 in accordance with IEC 60079-7.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Some modules deleted/added

Annex:

[224814300 - Annex 1.pdf](#)

**Annex 1 to Certificate of Conformity IECEx DEK 18.0018X/
Testreport NL/DEK/ExTR19.0048/03**

Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.	Fiber outputs Laser Class 1
Scalance Modules						
Scalance W7xx-1	RAP-W1-RJ-E1	T4	-20... +60°C	24V / max.300mA 48V / max.150mA	24V 48V	
Scalance W7xx-1	LAP-W1-RJ-E1	T4	-20... +60°C	24V / max.250mA 48V / max.130mA	24V 48V	
Scalance W7x8-1	RAPN-W1-RJ-E3	T4	-20 ... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V 48V	
Scalance W7x8-2	RAPN-W2-RJ-E3	T4	-20 ... +60°C	24V / max. 650 mA 48V / max. 320 mA	24V 48V	
Scalance W7x8-1	RAPN-W1-M12-E3	T4	-20 ... +60°C	24V / max. 650 mA 48V / max. 320 mA	24 V 48V	
Scalance W7x8-2	RAPN-W2-M12-E3	T4	-20 ... +60°C	24V / max. 650 mA 48V / max. 320 mA	24V 48V	
Scalance W7xx-1 RJ	ELN-W1-RJ-E1	T4	0 ... +60°C	24V / max. 150 mA	24 V	
Scalance W7x4-1	MSN-W1-RJ-E2	T4	-30 ... +70°C	24V / max. 250 mA 48V / max. 125 mA	24 V 48V	
Scalance W774-1	MSN-W1-M12-E2	T4	-30 ... +70°C	24V / max. 250 mA 48V / max. 125 mA	24 V 48V	
Scalance W786-1	EAPN-W1-RJ-E3	T4	-40 ... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24 V 48V 24V 240V	
Scalance W786-2	EAPN-W2-RJ-E3	T4	-40 ... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24 V 48V 24V 240V	
Scalance W786-2	EAPN-W2-RJ-I3	T4	-40 ... +60°C	24V / max. 650 mA 48V / max. 320 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24 V 48V 24V 240V	
Scalance W786-2	EAPN-W2-SFP-E3	T4	-40 ... +60°C	24V / max. 650 mA 12-24V / max. 1400 mA 100-240V / max. 264 mA	24 V 24V 240V	
Scalance W1748-1 M12	RAPAC-W1-M12-E4	T4	-20 ... +70°C	24V / max.700mA 48V / max.385mA	24V 48V	
Scalance W1788-1 M12	RAPAC-W1-M12-E4	T4	-20 ... +70°C	24V / max.700mA 48V / max.385mA	24V 48V	
Scalance W1788-2 M12	RAPAC-W2-M12-E4	T4	-20 ... +70°C	24V / max.700mA 48V / max.385mA	24V 48V	
Scalance W1788-2 M12 EEC	RAPAC-W2-M12-E4	T4	-40 ... +75°C	24V / max.700mA 48V / max.385mA	24V 48V	
Scalance W1788-2IA M12	RAPAC-W2-M12-I4	T4	-20 ... +70°C	24V / max.700mA 48V / max.385mA	24V 48V	
MSN65-W1-M12-E2	W738-1 M12	T4	-20 ... +60°C	24V / max.250mA 48V / max.125mA	24V 48V	
MSN65-W1-M12-E2	W778-1 M12	T4	-20 ... +60°C	24V / max.250mA 48V / max.125mA	24V 48V	
MSN65-W1-M12-E2	W778-1 M12 EEC	T4	-30 ... +75°C	24V / max.250mA 48V / max.125mA	24V 48V	
Scalance M874-2	6GK5874-2AA00-2AA2	T4	-20 ... +60°C	12-24V / max. 670mA	24V	
Scalance M874-3	6GK5874-3AA00-2AA2	T4	-20 ... +60°C	12-24V / max. 670mA	24V	
Scalance M876-3	6GK5876-3AA02-2BA2	T4	-20 ... +60°C	12-24V / max. 670mA	24V	
Scalance M876-3 ROK	6GK5876-3AA02-2EA2	T4	-20 ... +60°C	12-24V / max. 670mA	24V	
Scalance M876-4	6GK5876-4AA00-2BA2	T4	-20 ... +70°C	12-24V / max. 670mA	24V	

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Testreport NL/DEK/ExTR19.0048/03**

Scalance M876-4	6GK5876-4AA00-2DA2	T4	-20 ... +70°C	12-24V / max. 670mA	24V	
RUGGEDCOM RM1224	6GK6108-4AM00-2BA2	T4	-20 ... +70°C	12-24V / max. 670mA	24V	
RUGGEDCOM RM1224	6GK6108-4AM00-2DA2	T4	-20 ... +70°C	12-24V / max. 670mA	24V	
SIMATIC LOGO!						
LOGO! CMR2020	6GK7142-7BX00-0AX0	T4	-20 ... +70°C	12-24V / max. 850mA	24V	
LOGO! CMR2040	6GK7142-7EX00-0AX0	T4	-20 ... +70°C	12-24V / max. 850mA	24V	
S7-1200 Modules						
CP1242-7 GPRS V2	6GK7242-7KX31-0XE0	T4	-20... +70°C	5V / max.150mA 24V / max.75mA	5V 24V	
CP1243-7 LTE-EU	6GK7243-7KX30-0XE0	T4	-20... +70°C	5V / max.150mA 24V / max.120mA	5V 24V	
CP1243-7 LTE-US	6GK7243-7SX30-0XE0	T4	-20... +70°C	5V / max.150mA 24V / max.120mA	5V 24V	

The Suffix –a denotes any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation etc.

Fiber Outputs: Laser Class 1 approved according IEC 60825-1. The optical cables may lead either into or through hazardous areas requiring equipment of EPL Gb, Gc, Db or Dc.

For models with Fiber outputs Laser Class 1, Optionally, an Optical Transceivers type 6GK599., certified per IECEx DEK 18.0050U can be installed.