IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx INE 15.0018X

Issue No: 3

Certificate history:
Issue No. 3 (2019-02-28)
Issue No. 2 (2018-02-14)
Issue No. 1 (2017-02-28)
Issue No. 0 (2016-02-22)

Status: **Current**

Date of Issue: **2019-02-28**

Applicant: **Schneider Electric Japan Holdings Ltd**
4-4-9 Kitahama, Chuo-Ku, OSAKA-SHI
OSAKA 541-0041
Japan

Equipment: **Graphic Terminal type PFXSP... or PFXFP...**

Optional accessory: *Accessories type PFXZCD...*

Type of Protection: **nA nC tc**

Marking:

Ex nA nC IIC T(*) Gc - All modules except PFXSP5700WCD and PFXSP5800WCD
Ex nA IIC T4 Gc - For PFXSP5700WCD and PFXSP5800WCD display unit

Ex tc IIIC T(*)°C Dc - for All modules

Tamb : 0°C to (*)°C

(*) See descriptive table of equipment in annexe

Approved for issue on behalf of the IECEx Certification Body: Thierry HOUEIX

Position: Ex Certification Officer

Signature:
(for printed version)

Date: 2019-02-28

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques, BP n2
Parc Technologique ALATA
France

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Manufacturer: **SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD**
4-4-9 Kitahama, Chuo-Ku, OSAKA-SHI
OSAKA 541-0041
Japan

Additional Manufacturing location(s):

WUXI Pro-face Co., Ltd
No.20 Hangjiang Road,
National Hi-tech Industrial Development District
214028 Wuxi
China

PT SCHNEIDER ELECTRIC MANUFACTURING BATAM
JL Beringin Lot 1, 4 and 208 Batamindo Industrial Park, Muka Kuning,
BATAM INDONESIA, 29433
Indonesia

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 apparatus 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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:

FR/INE/ExTR15.0028/00 FR/INE/ExTR15.0028/01 FR/INE/ExTR15.0028/02
FR/INE/ExTR15.0028/03

Quality Assessment Report:

FR/INE/QAR16.0001/03

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Graphic terminals type PFXSP...* or PFXFP...* and Accessories type PFXZCD...* are user interfaces which include a touch-screen display, a box unit and printed circuit boards. All the display units are resistive touch panels except the display with capacitive touch panels (PFXSP5700WCD and PFXSP5800WCD products).

The graphic terminals are non-sparking during conditions of normal operation and are protected by protection modes Ex nA and Ex tc, except the resistive touch panels which are protected by Ex nC.

For a use in zone 2 for Gas application, the box unit shall be placed in an enclosure EPL Gc and the display unit onto an enclosure EPL Gc insuring a minimal ingress protection IP54.

For a use in zone 22 for Dust application, the box unit shall be placed in an enclosure EPL Dc and the display unit onto an enclosure EPL Dc insuring a minimal ingress protection IP6X.

The equipment is classified:
- Gc for Gas Group IIC and Temperature Class T6 or T4 for Gas application.
- Dc for Dust Group IIIC and Temperature Class T85°C or T135°C for Dust application.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Graphic terminals type PFXSP...* or PFXFP...* and accessories PFXZCD...* shall be mounted in an additional enclosure EPL Gc insuring a minimal protection level IP54 for a Gas application, and in an enclosure EPL Dc insuring a minimal ingress protection IP6X for Dust application in accordance with the requirements of EN 60079-0 : 2012, EN 60079-15 :2010 and EN 60079-31: 2013 standards. Graphic terminals shall be installed and used according with requirements indicated in the user manual.

- The enclosure equipped with Graphic terminals type PFXSP...* or PFXFP...* and accessories PFXZCD...* shall not be opened when an explosive atmosphere is present and shall be used in an environment of not more than Pollution Degree 2 as defined in IEC60664-1.

- Graphic terminals type PFXSP...* or PFXFP...* and accessories PFXZCD...* present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.

- Graphic terminals type PFXSP...* or PFXFP...* and accessories PFXZCD...* shall be protected against UV light.

- The power supply cable, communication cables, USB or mini-USB connectors and RJ45 connectors must not be disconnected while circuit is live.

- User shall take into consideration during the installation of graphic terminals PFXSP...* or PFXFP...* and accessories PFXZCD...*, that the product underwent only a shock corresponding to an energy of a low risk at 2J.

- The USB in front of the enclosure shall be hidden by screwing the USB cover PFXZCDCVUS1.

- Operating temperature of the gasket shall not exceed 66°C.

The other conditions are stipulated in the instructions guide

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The changes of the issue 01 are regarding:

- Introduction of new box unit, new power supply adapter and new multi-display adapters.
- Introduction of new internal power supply.
- Introduction of new internal LCD.

The changes of the issue 02 are regarding:

- The introduction of two new capacitive display units PFXSP5700WCD and PFXSP5800WCD.
- The introduction of two new communication modules PFXZCHEUFN1 and PFXZCHEUCAM1.
- The introduction of three new specific products: PFXSP5600TPDLC, PFXSP5B10LC and PFXSP5B41LC.
- Remove communication module PFXZCDEUEC1.
- Update of the manufacturer's documentation.
- Manufacturer's legal name modification: « DIGITAL ELECTRONICS CORPORATION » is replaced by « SCHNEIDER ELECTRIC JAPAN HOLDING LTD ».

The changes of the issue 03 are regarding:

- The introduction of a new resistive display unit PFXSP5600TAD(LC) and a new box unit PFXSP5B00(LC).
- Application of IEC 60079-0:2017 standard.
- Addition of a new manufacturing location : PT SCHNEIDER ELECTRIC MANUFACTURING BATAM.
- Update of the manufacturer's documentation.

Annex:

IECEx INE 15.0018X-03_Annex.pdf

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PARAMETERS RELATING TO THE SAFETY

The terminals have to be supplied with the following rated voltage:

	Un (VD.C.)
PFXSP...*	12 / 24
PFXFP...*	12 / 24
PFXZCD...*	3.3 / 12 / 24

MARKING

Marking has to be readable and indelible; it has to include the following indications:

Graphic terminal type PFXSP...* or PFXFP...* and accessories type PFXZCD...* except types PFXSP5700WCD and PFXSP5800WCD:

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD
- 541-0041 OSAKA - JAPAN
- *PFXSP...* or PFXFP...* or PFXZCD...**
- IECEx INE 15.0018X
- (Serial number)
- Ex nA nC IIC T(*) Gc
- Ex tc IIIC T(*)°C Dc
- T_{amb}: (*)
- ***WARNINGS:***
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

(* *see descriptive table of equipment below*)

Graphic terminal type PFXSP5700WCD and PFXSP5800WCD:

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD
- 541-0041 OSAKA - JAPAN
- PFXSP5700WCD or PFXSP5800WCD
- IECEx INE 15.0018X
- (Serial number)
- Ex nA IIC T4 Gc
- Ex tc IIIC T135°C Dc
- Tamb: 0°C to +55°C
- **WARNINGS**:
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

Marking may be carried out in the language of the country of use.

The equipment has also to carry the marking normally stipulated by its construction standards.

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DESCRIPTIVE TABLE OF EQUIPMENT:

PFXSP...*

Product	Description	Temperature classes	Ambient temperature range
PFXSP5500TPD	Display unit 10.4 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5600TPD	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5600TPDLC	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T6 / T85°C	0°C to + 50°C
PFXSP5600TPD	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5600TPDLC	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T6 / T85°C	0°C to + 50°C
PFXSP5660TPD	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5700TPD	Display unit 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5400WAD	Display unit 7.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5500WAD	Display unit 10.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5600WAD	Display unit 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXSP5700WCD	Display unit 15.0 inches, 12-24 $V_{D.C.}$ (capacitive touch panel)	T4 / T135°C	0°C to + 55°C
PFXSP5800WCD	Display unit 19.0 inches, 12-24 $V_{D.C.}$ (capacitive touch panel)	T4 / T135°C	0°C to + 55°C
PFXSP5B00	Box unit, 12 VD.C.	T4 / T135°C	0°C to + 60°C
PFXSP5B00LC	Box unit, 12 VD.C.	T6 / T85°C	0°C to + 50°C
PFXSP5B10	Box unit, 12 $V_{D.C.}$	T4 / T135°C	0°C to + 60°C
PFXSP5B10LC	Box unit, 12 $V_{D.C.}$	T6 / T85°C	0°C to + 30°C
PFXSP5B40	Box unit, 12 $V_{D.C.}$	T4 / T135°C	0°C to + 60°C
PFXSP5B41	Box unit, 12 $V_{D.C.}$	T4 / T135°C	0°C to + 60°C
PFXSP5B41LC	Box unit, 12 $V_{D.C.}$	T6 / T85°C	0°C to + 50°C

PFXFP...*

Product	Description	Temperature classes	Ambient temperature range
PFXFP5600TPD	Display unit, 12.1 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C
PFXFP5700TPD	Display unit, 15.0 inches, 12-24 $V_{D.C.}$ (resistive touch panel)	T4 / T135°C	0°C to + 60°C

PFXZCD...*

Product	Description	Temperature classes	Ambient temperature range
PFXZCDADEXP1	Power adaptor, 12-24 VD.C.	T4 / T135°C	0°C to + 60°C
PFXZCDADEXR1	Multidisplay adaptor, 3.3 VD.C.	T4 / T135°C	0°C to + 60°C
PFXZCDEUPF1	Profibus/MPI Slave Unit, 3.3 VD.C.	T4 / T135°C	0°C to + 60°C
PFXZCDEUCA1	CANopen Slave Unit, 3.3 VD.C.	T4 / T135°C	0°C to + 60°C
PFXZCHEUFN1	Flex Network Master Unit, 3.3 $V_{D.C.}$	T4 / T135°C	0°C to + 60°C
PFXZCHEUCAM1	CANopen Master Unit, 3.3 $V_{D.C.}$	T4 / T135°C	0°C to + 60°C

All models may be followed by alphanumeric characters and there is no impact safety related critical components and constructions

ROUTINE EXAMINATIONS AND TESTS

None