



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 INE 16.0015X**

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Certificate history:

Status: **Current**

Issue No: 3

[Issue 2 \(2018-12-07\)](#)

[Issue 1 \(2018-03-02\)](#)

[Issue 0 \(2016-04-14\)](#)

Date of Issue: 2023-01-06

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

Equipment: **Graphic Terminal type PFXGM4...* or PFXXM4...* or PFXLM4...***

Optional accessory:

Type of Protection: **nA nC tc**

Marking: **Ex nA nC IIC T4 Gc**
Ex tc IIIC T135°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



Thierry HOUÉIX

Ex Certification Officer

2023-01-06

Signé électroniquement
Digitally signed by
Thierry HOUÉIX
Ex Certification Officer
Délégué Certification

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Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France





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

Manufacturing
locations: **WUXI Pro-face Co., Ltd**
No.516 Xida Road
Wuxi, Jiangsu 214111
China

**PT SCHNEIDER ELECTRIC
MANUFACTURING BATAM**
JL Beringin Lot 04
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 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Reports:

FR/INE/ExTR16.0015/00

FR/INE/ExTR16.0015/01

FR/INE/ExTR16.0015/02

Quality Assessment Report:

FR/INE/QAR16.0001/12



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Graphic terminals type PFXGM4...*, PFXLM4...* ou PFXXM4...* are user interfaces which include a front module with a touch-screen display and a box unit composed of printed circuit boards. They are non-sparking during conditions of normal operation and are protected by protection modes Ex nA and Ex tc, except the resistive touch-screen display which is protected by Ex nC.

For a use in zone 2 for Gas application, the graphic terminal shall be mounted in an enclosure EPL Gc insuring a minimal ingress protection IP54.

For a use in zone 22 for Dust application, the graphic terminal shall be mounted in an enclosure EPL Dc insuring a minimal ingress protection IP6X.

The equipment is classified:

- Gc for Gas Group IIC and Temperature Class T4 for Gas application;
- Dc for Dust Group IIIC and Temperature Class T135°C for Dust application.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Graphic terminals type PFXGM4...* or PFXLM4...* or PFXXM4...* are intended to be used in an operating temperature range from 0°C to 50°C.

- Graphic terminals PFXGM4...* or PFXLM4...* or PFXXM4...* shall be installed in an EPL Gc additional enclosure 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 60079-31:2014 standards (* See table of equipment description).

- The enclosure equipped with graphic terminals PFXGM4...* or PFXLM4...* or PFXXM4...* 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 IEC 60664-1.

- Graphic terminals PFXGM4...* or PFXLM4...* or PFXXM4...* present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.

- Graphic terminals PFXGM4...* or PFXLM4...* or PFXXM4...* must not be exposed at direct sunlight. The user will have to read the instructions.

- 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 PFXGM4...* or PFXLM4...* or PFXXM4...*, that the product underwent only a shock corresponding to an energy of a low risk at 2J.

The other conditions are stipulated in the instructions guide.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For issue 01:

The changes of the issue 01 are regarding the modification of the manufacturer's legal name from DIGITAL ELECTRONICS CORPORATION to SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.

For issue 02:

Addition of manufacturing location:

- PT SCHNEIDER ELECTRIC MANUFACTURING BATAM (INDONESIA).

Modification of the legal name of the following manufacturing location:

- "WUXI Pro-face Co., Ltd" (CHINA) instead of "WUXI Pro-face electronics Co., Ltd".

For issue 03:

- New address for the manufacturing location WUXI PRO-FACE CO., LTD.

Annex:

[IECEx INE 16.0015X-03_Annex.pdf](#)



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Issue No.: 03

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Annex: IECEx INE 16.0015X-03_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

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

	U_n (V _{D.C.})
PFXGM4...* or PFXLM4...* or PFXXM4...*	24

MARKING

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

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.
541-0041 OSAKA
JAPAN
- PFXGM4...* or PFXXM4...* or PFXLM4...* (* see descriptive table of equipment below)
- IECEx INE 16.0015X
- (Serial number)
- Ex nA nC IIC T4 Gc
- Ex tc IIIC T135°C Dc
- T_{amb}: 0°C to +50°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.

DESCRIPTIVE TABLE OF EQUIPMENT :

PFXGM4...*	
Product	Description
PFXGM4201TAD	Small panel 3.5" LCD
PFXGM4301TAD	Small panel 5.7" LCD
PFXGM4B01D	Rear module : CPU

PFXLM4...*	
Product	Description
PFXLM4201TADDC	Small controller panel 3.5" LCD (machine version)
PFXLM4201TADDK	
PFXLM4301TADDC	Small controller panel 5.7" LCD (machine version)
PFXLM4301TADDK	
PFXLM4B01DDC	Rear module (machine version)
PFXLM4B01DDK	
PFXLM4201TADAC	Small controller panel 3.5" LCD (process version)
PFXLM4201TADAK	
PFXLM4301TADAC	Small controller panel 5.7" LCD (process version)
PFXLM4301TADAK	
PFXLM4B01DAC	Rear module (process version)
PFXLM4B01DAK	

PFXXM4...*	
Product	Description
PFXXM4200TP	Front display 3.5" LCD
PFXXM4300TP	Front display 5.7" LCD

ROUTINE EXAMINATIONS AND TESTS

- None