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
Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx INE 23.0048U**

Certificate history:
Issue 1 (2024-04-22)
Issue 0 (2024-02-26)

Status: **Current**

Issue No: 2

Date of Issue: 2024-11-08

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

Ex Component: Basic HMI type PFXST6 and PFXSTC6

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **ec nC tc**

Marking: Ex ec nC IIC Gc
Ex tc IIIC Dc

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

Position: **Ex Certification Officer**

Signature:
(for printed version)

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

Date:
(for printed version)

2024-11-08

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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

controlling risks for sustainable development

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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. 20 Hanjiang Road
Wuxi
Jiangsu
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 component 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 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

FR/INE/ExTR23.0052/00 FR/INE/ExTR23.0052/01 FR/INE/ExTR23.0052/02

Quality Assessment Report:

FR/INE/QAR16.0001/15

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Ex Component(s) covered by this certificate is described below:

Basic HMI PFXST6 and PFXSTC6 are components-Ex and include a touch-screen display and printed circuit boards. All the display units are resistive touch panel. The display units are non-sparking during conditions of normal operation and are protected by the Types of Protection Ex ec nC and Ex tc.

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

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

SCHEDULE OF LIMITATIONS:

- Basic HMI PFXST6 and PFXSTC6 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 IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-15:2017 and IEC 60079-31:2022 standards.
- The enclosure equipped with Basic HMI PFXST6 and PFXSTC6 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.
- Basic HMI PFXST6 and PFXSTC6 present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.
- Basic HMI PFXST6 and PFXSTC6 shall be protected against UV lights.
- The power, communication, or USB connectors must not be disconnected while circuit is live.
- The user shall take into consideration during the installation of Basic HMI PFXST6 and PFXSTC6 that the product underwent only a shock corresponding to an energy of a low risk at 2J.
- Basic HMI PFXST6 and PFXSTC6 satisfied the examinations and individual tests which are applicable for it within the standards, with exception of the following articles of IEC 60079-7 standard: *cl 6.1 - Dielectric strength.*
- For temperature classification T4 and T135°C, the Basic HMI PFXST6 are intended to be used in an ambient temperature range from 0°C to +50°C.
- For temperature classification T4 and T135°C, the Basic HMI PFXSTC6 are intended to be used in an ambient temperature range from 0°C to +45°C.
- The service temperature range for the display part in contact with additional enclosure EPL Gc or EPL Dc is 0°C to +60°C.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 01:

Modification of the Ex-Component name from Basic Modular HMI to Basic HMI

Issue 02:

Correction of rated voltage and maximum power dissipation in the table of parameters of the certificate

Annex:

IECEx INE 23.0048U-02_Annex.pdf

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PARAMETERS RELATING TO THE SAFETY

Models No.	Description	Rated voltage Vdc.	Power dissipation maximum (W)
PFXST6300TAD#	Basic HMI 5.7" OP	24	≤ 8.9 W
PFXST6500TAD#	Basic HMI 10.4" OP	24	≤ 10.56 W
PFXSTC6300TADDK#	Basic HMI 5.7" COMBO Sink	24	≤ 11.3 W
PFXSTC6300TADDC#	Basic HMI 5.7" COMBO Source	24	≤ 11.3 W

Accessories	Description	Rated voltage Vdc.	Power dissipation maximum (W)
PFXZCBADTM1	RS-422 terminal Block Conversion Adapter	3.3	≤ 1
PFXZCBCLUSA1	USB ClampType Ar	3.3	≤ 1
PFXZCBCBCVUSR41	Din Rail support	3.3	Passive element
PFXZCIEXMB2	cable accessory	3.3	Passive element
PFXZCBSD4GC41	cable accessory only for PFXST6500TAD	3.3	Passive element
PFXZGEBT1	cable accessory	3.3	Passive element

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

MARKING

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

- SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD
  541-0041 OSAKA - JAPAN
- PFXST6 or PFXSTC6 …(*)
- IECEx INE 23.0048U
- (Serial number)
- Ex ec nC IIC Gc
- Ex tc IIIC Dc
- T_{amb}: (*)

- ***WARNINGS:***
  - DO NOT DISCONNECT WHEN CIRCUIT IS LIVE
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

(*) *see descriptive table of equipment below.*

ROUTINE EXAMINATIONS AND TESTS

None

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DESCRIPTIVE TABLE OF THE Ex-COMPONENTS:

Models & accessories No.	Description	Operating Temperature (°C)
PFXST6300TAD#	Basic HMI 5.7” OP	0 to 50
PFXST6500TAD#	Basic HMI 10.4” OP	0 to 50
PFXSTC6300TADDK#	Basic HMI 5.7” COMBO Sink	0 to 45
PFXSTC6300TADDC#	Basic HMI 5.7” COMBO Source	0 to 45
PFXZCBADTM1	RS-422 terminal Block Conversion Adapter	0 to 50
PFXZCBCLUSA1	USB ClampType Ar	0 to 50
PFXZCBCBCVUSR41	Din Rail support	0 to 50
PFXZCIEXMB2	cable accessory	0 to 50
PFXZCBSD4GC41	cable accessory only for PFXST6500TAD	0 to 50
PFXZGEBT1	cable accessory	0 to 50

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