



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** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-02-26

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

Ex Component: Basic Modular 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:

Position:

Signature:
(for printed version)

Date:
(for printed version)



Thierry HOUËIX

Ex Certification Officer

2024-02-27

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

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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**
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 Report:

[FR/INE/ExTR23.0052/00](#)

Quality Assessment Report:

[FR/INE/QAR16.0001/13](#)



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

Basic Modular 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 Modular 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 Modular 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 Modular HMI PFXST6 and PFXSTC6 present a potential electrostatic charging hazard, safety precautions are defined in the instructions guide.
- Basic Modular 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 Modular HMI PFXST6 and PFXSTC6 that the product underwent only a shock corresponding to an energy of a low risk at 2J.
- Basic Modular 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 Modular 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 Modular 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.

Annex:

[IECEX INE 23.0048U-00_Annex.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Models No.	Description	Rated voltage Vdc.	Power dissipation maximum (W)
PFXST6300TAD#	Basic Modular HMI 5.7" OP	24 / 12 / 5 / 3.3	≤ 8.9 W
PFXST6500TAD#	Basic Modular HMI 10.4" OP	24 / 12 / 5 / 3.3	≤ 10.56 W
PFXSTC6300TADDK#	Basic Modular HMI 5.7" COMBO Sink	24 / 12 / 5 / 3.3	≤ 6.8 W
PFXSTC6300TADDC#	Basic Modular HMI 5.7" COMBO Source	24 / 12 / 5 / 3.3	≤ 6.8 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

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 Modular HMI 5.7" OP	0 to 50
PFXST6500TAD#	Basic Modular HMI 10.4" OP	0 to 50
PFXSTC6300TADDK#	Basic Modular HMI 5.7" COMBO Sink	0 to 45
PFXSTC6300TADDC#	Basic Modular 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.