

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Schneider Electric Japan Holdings Ltd.</b>
<b>Address</b>	4-4-9 Kitahama, Chuo-Ku, Osaka-Shi, Osaka 541-0041, Japan
<b>Place of Production</b>	Wuxi Pro-face Co., Ltd. No.20, Hanjiang Road, Wuxi, Jiangsu, 214028, P/R/China
<b>Place of Production</b>	PT Schneider Electric Manufacturing Batam Batamindo Industrial Park, Block 4 & 208, Muka Kuning, Batam Island 29433, Indonesia
<b>Type</b>	Human Machine Interface
<b>Description</b>	Human Machine Interface, SP5000 (HMIGTU) & FP5000 (iDisplay HMIDID) Series
<b>Trade Name</b>	See Appendix
<b>Application</b>	Marine and offshore applications for use in environmental categories ENV1, ENV2 & ENV3 in the "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2019 where the Test Specification is satisfactory for the intended operation.



**Toshihiro Shigeno**

Innovation / Type Approval Coordinator and  
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A member of the Lloyd's Register group

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<b>Specified Standard</b>	IEC 61131-2 : 2007
<b>Ratings</b>	See Appendix
<b>Additional Tests</b>	IACS Unified Requirement E10 Rev.7

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Group Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2028832TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## **Appendix**

### **TRADE NAME**

SP5000 (HMIGTU) & FP5000 (iDisplay HMIDID) Series comprising:-

- PFXSP5500TPD# (HMIDT542#) : Display unit that enable to use with box unit,  
10.4-inch TFT, 16M colors,  
SVGA 800 x 600 pixels,  
Analog Touch Panel (Multi touch),  
Front USB A/mini-B I/F x 1 each,  
DC12-24 V
- PFXSP5600TPD# (HMIDT642#) : Display unit that enables to use with box unit,  
12.1-inch TFT, 16M colors,  
XGA 1024 x 768 pixels,  
Analog Touch Panel (Multi touch),  
Front USB A/mini-B I/F x 1 each,  
DC12-24 V
- PFXSP5660TPD# (HMIDT643#) : Display unit that enables to use with box unit,  
12.1-inch TFT, 16M colors,  
XGA 1024 x 768 pixels,  
Analog Touch Panel (Multi touch),  
Wireless LAN,  
Front USB A/mini-B I/F x 1 each,  
DC12-24 V
- PFXSP5700TPD# (HMIDT732#) : Display unit that enables to use with box unit,  
15-inch TFT, 16M colors,  
XGA 1024 x 768 pixels,  
Analog Touch Panel (Multi touch),  
Front USB A/mini-B I/F x 1 each,  
DC12-24 V
- PFXSP5400WAD# (HMIDT351#) : Display unit that enables to use with box unit,  
7.0-inch Wide TFT,  
WVGA 800 x 480 pixels,  
Analog Touch Panel,  
DC12-24 V

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- PFXSP5500WAD# (HMIDT551#) : Display unit that enables to use with box unit, 10.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24 V
- PFXSP5600WAD# (HMIDT651#) : Display unit that enables to use with box unit, 12.1-inch Wide TFT, WXGA 1280 x 768 pixels, Analog Touch Panel, DC12-24 V
- PFXSP5B10# (HMIG3U#) : Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 2, USB mini-B I/F, SD Card I/F x 2, AUX I/F, Expansion Unit I/F, DC12 V from display unit
- PFXSP5B40# (HMIG5U#) : Box unit that enables to use with display unit, Ethernet I/F x 2, COM I/F x 2, USB A I/F x 3, USB mini-B I/F, CFast Card I/F x 2, SD Card I/F, AUX I/F, Expansion Unit I/F, DVI-D Out I/F, Audio In I/F, DC12 V from display unit
- PFXFP5600TPD# (HMIDID64DTD1#) : Flat panel display unit, 12.1-inch TFT, 16M colors, XGA 1024 x 768 pixels, Analog Touch Panel (Multi touch), Front USB A I/F, DVI-D In I/F, USB B I/F, DC12-24 V

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- PFXFP5700TPD# (HMIDID73DTD1#) : Flat panel display unit,  
15-inch TFT, 16M colors,  
XGA 1024 x 768 pixels,  
Analog Touch Panel (Multi touch),  
Front USB A I/F,  
DVI-D In I/F,  
USB B I/F,  
DC12-24 V
- PFXSP5700WCD# (HMIDT752#) : Display unit that enables to use with box unit,  
15.6-inch Wide TFT, 16M colors,  
FWXGA 1,366 x 768 pixels,  
Capacitive Touch Panel,  
Front USB A/mini-B I/F x 1 each,  
DC12-24V
- PFXSP5800WCD# (HMIDT952#) : Display unit that enables to use with box unit,  
18.5-inch Wide TFT, 16M colors,  
FWXGA 1,366 x 768 pixels,  
Capacitive Touch Panel,  
Front USB A/mini-B I/F x 1 each,  
DC12-24V
- PFXSP5B41# (HMIG5U2#) : Box unit that enables to use with display unit,  
Ethernet I/F x 2,  
COM I/F x 2,  
USB A I/F x 3, USB mini-B I/F,  
CFast Card I/F x 2, SD Card I/F,  
AUX I/F,  
Expansion Unit I/F,  
DVI-D Out I/F,  
Audio In I/F,  
DC12V from display unit

Note) # is may be followed by any letter or number that indicates color, PCBA coating, memory size or software combinations.



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## LLOYD'S REGISTER TYPE APPROVAL

Issue by: Yokohama Technical Support Office

Issued to: Schneider Electric Japan Holdings Ltd.

For: Human Machine Interface, SP5000 (HMIGTU) & FP5000 (iDisplay HMDID) Series

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 03 (July 2017) and this Design Appraisal Document forms part of the Certificate. This is a renewal of certificate 15/10027 & 15/10028.

### APPROVAL DOCUMENTATION

<u>Title</u>	<u>Document Ref.</u>	<u>Date</u>
Request for Marine Services – Type Approval	2502TA	August 27, 2020
Application Checklist – Appendix to Form 2502TA/2502TA MR	-	August 27, 2020
The plan for certificates of marines for Zenzai and iDisplay project	14RT-4RE00104	20 October 2014
SP5000 Series (Display Module) Installation Guide	-	-
SP5000 Series (Box Module) Installation Guide	-	-
FP5000 Series Installation Guide	-	-
OVERALL DIMENSTION	-	-
PFXSP5400WAD	HRB8089500	-
PFXSP5500WAD	HRB8089600	-
PFXSP5600WAD	HRB8089700	-
PFXSP5500TPD	HRB7973500	-
PFXSP5600TPD	HRB7973600	-
PFXSP5700TPD	HRB7945600	-
PFXSP5B10	HRB8089300	-
PFXSP5B40	HRB7945400	-
PFXFP5600TP	EAV9936000	-
PFXFP5700TPD	EAV9938300	-
HMIDT351	HRB8089800	-
HMIDT551	HRB8089900	-
HMIDT651	HRB8090000	-
HMIDT542	HRB7973700	-
HMIDT642	HRB7973800	-
HMIDT732	HRB7974000	-
HMIG3U	HRB8089400	-
HMIG5U	HRB7974100	-
HMIDID64DTD1	NHA1483500	-
HMIDID73DTD1	NHA1483600	-
SCHEMATIC CIRCUIT DIAGRAM	-	-
ZENZAI DISPLAY PREMIUM (MODEL NUMBER : ZENZAI FRONT USB FPC)	HRB1098309	07 November 2012
ZENZAI ADVANCED DISPLAY (MODEL NUMBER : MK5)	HRB1372426, Rev.03	11 June 2013
ZENZAI ADVANCED DISPLAY (MODEL NUMBER : ZZ7-DCW)	HRB1372928, Rev.05	15 October 2013
ZENZAI DISPLAY PREMIUM (MODEL NUMBER : ZENZAI FRONT USB 12 FPC)	HRB1547109	07 November 2012

Power Supply Specification	AZDGB05-A	-
ZENAI DISPLAY PREMIUM (MODEL NUMBER : ZENAI DISPLAY USB)	HRB4568726	05 February 2013
ZENAI BOX (MODEL NUMBER : CARRIER BOARD)	HRB4800330, Rev.04	30 August 2013
ZENAI BOX (MODEL NUMBER : INTERFACE BOARD PF)	HRB4801128, Rev.03	28 May 2013
ZENAI BOX (MODEL NUMBER : INTERFACE BOARD SE)	HRB4801628, Rev.03	28 May 2013
IDISPLAY (MODEL NUMBER : DVI-DINTERFACE ADAPTER)	HRB7036326, Rev.03	16 July 2013
ZENAI ADVANCED BOX (MODEL NUMBER : PFXSP5B10)	S1B8801328, Rev.05	05 November 2013
ZENAI DISPLAY PREMIUM (MODEL NUMBER : ZENAI DISPLAY PRE)	S1B8787628, Rev.06	20 August 2013
Test Plan for HMI in Marines, Version V1.0	14RT-4RE00116	06 November 2014
LR Renewal 2020 (add 3 models)	-	2020/10/07

**TEST REPORTS**

<u>Title</u>	<u>Document Ref.</u>	<u>Date</u>
Type: PFXSP5500TPD+PFXSP5B10	FLI 12-15-007	25 March 2015
Type: PFXSP5660TPD+PFXSP5B40	FLI 12-15-008	25 March 2015
Type: HMIDT642+HMIG3U (PFXSP5600TPD+PFXSP5B10)	FLI 12-15-009	25 March 2015
Type: PFXSP5700TPD+PFXSP5B10	FLI 12-15-010	25 March 2015
Type: PFXSP5400WAD+PFXSP5B10	FLI 12-15-011	25 March 2015
Type: HMIDT351+HMIG3U (PFXSP5400WAD+PFXSP5B10)	FLI 12-15-012, Rev.1	9 July 2015
Type: PFXSP5500WAD+PFXSP5B10	FLI 12-15-013	25 March 2015
Type: PFXSP5600WAD + PFXSP5B10	FLI 12-15-014	25 March 2015
Type: HMIDT651+HMIG3U (PFXSP5600WAD+PFXSP5B10)	FLI 12-15-015	25 March 2015
Type: PFXSP5700TPD+PFXSP5B40	FLI 12-15-016	25 March 2015
Type: PFXFP5600TPD	FLI 12-15-017	25 March 2015
Type: PFXFP5700TPD	FLI 12-15-018	25 March 2015
Type: PFXFP5700TPD	LIC 12-19-041	19 March 2019
Type: PFXSP5800WCD + PFXSP5B41	LIC 12-19-043	19 March 2019
Type: PFXSP5660TPD+PFXSP5B40	LIC 12-18-044	27 July 2018
Type: PFXSP5700TPD+PFXSP5B10	LIC 12-18-046	27 July 2018
Type: PFXSP5600WAD+PFXSP5B40	LIC 12-18-069	27 July 2018
Type: HMIDT732+HMIG3U	LIC 12-18-071	27 July 2018



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**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register Group Limited reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.*