**ABS**

| | |
|---|---|
| CERTIFICATE NUMBER | 25-0465598-PDA |
| EFFECTIVE DATE | 24-Dec-2025 |
| EXPIRY DATE | 23-Dec-2030 |
| ABS TECHNICAL OFFICE | Yokohama Engineering Services |

## CERTIFICATE OF
# Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

# SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.
located at

## SCHNEIDER ELECTRIC OSAKA BUILDING, 4-4-9 KITAHAMA, CHUO-KU, , OSAKA-SHI, Japan, 541-0041

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

| | |
|---|---|
| **Product:** | **Monitor, Graphic Panels** |
| **Model:** | **Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series** |
| | **Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series** |
| | **Harmony HMISTU655, HMISTU855, HMIS65...** |
| **Endorsements:** | |
| **Tier:** | **2 - PDA Issued** |

This Product Design Assessment (PDA) Certificate remains valid until 23/Dec/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Motohiro Tamura,Engineer/Consultant

**SCHNEIDER ELECTRIC JAPAN HOLDINGS LTD.**

SCHNEIDER ELECTRIC OSAKA BUILDING, 4-4-9 KITAHAMA, CHUO-KU

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**Tier: 2 - PDA Issued**

| | |
|---|---|
| **Product:** | **Monitor, Graphic Panels** |
| **Model:** | **Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series** |
| | **Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series** |
| | **Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series** |

**Endorsements:**

**Intended Service:**
Human Machine Interface for monitoring and control systems in marine applications.

**Description:**
This product is indicated of propulsion engine shaft revolution.
The product has a digital input, a digital output for monitoring system.
See also the attachment.

**Rating:**
Rated Input Voltage
24VDC

Surrounding Air Temperature
0 to 55 degree C or less

See also the attachment.

**Service Restriction:**
1. Unit Certification is not required for Schneider Electric Japan Holdings Ltd. as the original supplier.
However, unit certification in accordance with 4-9-3/Table 2 of the Marine Vessel Rules is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1 of the Marine Vessel Rules in presence of the Surveyor after assemblage. The tests are to be carried out preferably at the assembled plant before installation on-board. However, if it is impracticable, the tests may be carried out after installation on-board.
2. Failure analysis for safety related functions only and Analysis regarding existence and fulfillment of programming procedures for safety related functions in association with 4-9-3/Table 2 of the Marine Vessel Rules is to be additionally submitted when this component is used for systems assigned as Category III.

**Comments:**
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**
ISO 9001:2015/JIS Q 9001:2015 Certification Doc. No. 3912445.
Drawing No. 17RT-4RE00229, The project plan for Marine certificate, Revision 01, Pages 9, dated 3 July 2017,
Drawing No. 16RT-4RE00213, Technical document, Revision 03, Pages 91, dated 6 October 2017,
Drawing No. 16RT-4RE00214, Technical Document, Revision 02, Pages 63, dated 6 October 2017,
Drawing No. 17RT-4RE00233, Technical Document, Revision 01, Pages 51, dated 19 August 2017,
Drawing No. 17RT-4VE00182, Marine type test Report, Revision 02, Pages 131, dated 20 November 2017, issued by Labotech International Co., Ltd,
Drawing No. NSH-11032-TR, Type Test Report, Revision 00, Pages 284, dated 6 February 2012, issued by Japan Certification Corporation,
Drawing No. 16RT-4VE00137, Test Report, Revision 01, Pages 158, dated 4 November 2016, issued by Schneider Automation IOCC-LAB,
Drawing No. 16RT-4VE00138, Test Report, Revision 02, Pages 146, dated 21 August 2017, issued by Schneider

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Automation IOCC-LAB,
Drawing No. 17RT-4VB21736, Vibration Endurance Test (Marine) and Power Supply Variation Test (Marine),
Revision 00, Pages 39, dated 26 January 2017, issued by Schneider Electric Holdings Ltd. Reliability test lab,
Drawing No. 17RT-4VE00153, Test Report, Revision 01, Pages 261, dated 31 January 2017, issued by UL Japan, Inc.
Yokowa EMC lab,
Drawing No. EIO0000001133, Magelis HMI GTO for Vijeo Designer User Manual, Revision 06, Pages 140, dated
February 2016,
Drawing No. EIO0000001232, Magelis SCU HMI Controller Hardware Guide, Revision 04, Pages 200, dated October
2014,
Drawing No. EIO0000002263, Magelis STO Color Model User Manual, Revision 02, Pages 96, dated October 2016,
Drawing No. GP4000 Series Hardware Manual, GP4000 Series Hardware Manual, Revision 00, Pages 241,
Drawing No. General Documentation_HMISTU Series, General Documentation_HMISTU Series, Revision 00, Pages
200,
Drawing No. Test Report_HMISTU Series, Test Report, Revision 00, Pages 166, dated 12 February 2010, issued by
Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Updated Test Report in 2020 for HMISTU Series, Test Report, Revision 00, Pages 33, dated 21 May
2010, issued by Schneider IOCC-LAB,
Drawing No. A2200071829101001R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre
Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101002R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre
Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101003R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre
Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200071829101004R1, Test Report, Revision 00, Pages 11, dated 28 April 2020, issued by Centre
Testing International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. A2200074274101R1, Test Report, Revision 00, Pages 6, dated 28 April 2020, issued by Centre Testing
International Pinbiao (Shanghai) Co., Ltd.,
Drawing No. C20-160-WT, Test Report, Revision 00, Pages 17, dated 19 May 2020, issued by Shanghai Inspection
and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Documentation_01_PFXSTM6_HMISTM6, Test Report Configuration description, Revision 00, Pages
162, dated 15 May 2020, issued by Schneider IOCC-LAB,
Drawing No. ETI2020-3-645, Test Report, Revision 00, Pages 33, dated 14 May 2020, issued by Shanghai Inspection
and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. HMISTU-655, -855, Test Report, Revision 00, Pages 166, dated 14 May 2020, issued by Shanghai
Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.,
Drawing No. Product Specification HMISTM6, Product Specification_HMISTM6, Revision 00, Pages 60,
Drawing No. Product Specification PFXSTM6, Product Specification_ PFXSTM6, Revision 00, Pages 60,

**Terms of Validity:**
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Standards used in the assessment are revised or until there is a design modification warranting design reassessment
(whichever occurs first).

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Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for
construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance.
 Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

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## STANDARDS

**ABS Rules:**
2025 Marine Vessel Rules 1A-1-4/7.7, 1A-1-A3 & A4, 4-9-3 (Category II), 4-9-9/13;
2025 Mobile Offshore Units 1B-1-4/9.7, 1B-1-A2 & A3, 4-3-4/5, 6-1-1/9;
2025 High-Speed Craft 1C-1-4/11.9, 1C-1-A2 & A3, 4-7-8 (Cat II) and 4-7-9/15;


**National:**
NA

**International:**
EN 61131-2 Ed.4.0 b:2017,
IEC 61000-6-2 Ed.3.0 b:2016, FCC (Class A),
UL 508, 30 March 2018,
UL 1604, 28 April 1994,

IACS UR E10 (Rev.9 Aug. 2023)
IACS UR E22 (Rev.3 June 2023)


**Government:**
NA

**EUMED:**
NA

**OTHERS:**
NA

# Product Design Assessment (PDA) Certificate Attachment for Component Details

| | |
|---|---|
| **PDA Certificate No:** | 25-0465598-PDA |
| **Entry Date:** | 24 December 2025 |
| **Expire Date:** | 23 December 2030 |
| **Company:** | Schneider Electric Japan holdings Ltd. |
| **Product/Equipment:** | Monitor, Graphic Panels |
| **Model:** | Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series<br>Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series, Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series |
| **Revision:** | 4 |

## Description

| | Pro-face | Descriptions |
|---|---|---|
| GP4600 Series | PFXGP4601TAD# | 12.1" SVGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4601TMD# | 12.1" SVGA TFT color LCD, matrix touch panel, DC type |
| | PFXGP4603TAD# | 12.1" SVGA TFT color LCD, analog touch panel, DC type, isolated RS-485 |
| GP4500 Series | PFXGP4501TADW# | 10.4" VGA TFT color LCD, analog touch panel, DC type, small memory |
| | PFXGP4501TAD# | 10.4" VGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4501TMD# | 10.4" VGA TFT color LCD, matrix touch panel, DC type |
| | PFXGP4503TAD# | 10.4" VGA TFT color LCD, analog touch panel, DC type, isolated RS-485 |
| GP4400 Series | PFXGP4401TAD# | 7.5" VGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4401WADW# | 7.0" WVGA Wide TFT color LCD, analog touch panel, DC type |
| GP4300 Series | PFXGP4301TAD# | 5.7" QVGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4303TAD# | 5.7" QVGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4301TADW# | 5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory |
| GP4200 Series | PFXGP4201TAD# | 3.5" QVGA TFT color LCD, analog touch panel, DC type |
| | PFXGP4203TAD# | 3.5" QVGA TFT color LCD, analog touch panel, DC type, isolated RS-485 |
| | PFXGP4201TADW# | 3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory |
| GP4100 Color Series | PFXGP4114T*D# | 4.3" TFT color LCD, analog touch panel, DC type, Ethernet type |
| | PFXGP4115T*D# | 4.3" TFT color LCD, analog touch panel, DC type, RS-232 |
| | PFXGP4116T*D# | 4.3" TFT color LCD, analog touch panel, DC type, RS-422/485 |
| LT4200 Series | PFXLM4201TADD$# | 3.5" display and box module with DIO, DC type |
| | PFXLM4201TADA$# | 3.5" display and box module with DIO and AIO, DC type |
| LT4300 Series | PFXLM4301TADD$# | 5.7" display and box module with DIO, DC type |
| | PFXLM4301TADA$# | 5.7" display and box module with DIO and AIO, DC type |
| Box module | PFXLM4B01DD$# | Box module with DIO, DC type |
| | PFXLM4B01DA$# | Box module with DIO and AIO, DC type |
| Display module | PFXXM4200TP# | 3.5" display module |
| | PFXXM4300TP# | 5.7" display module |
| Cable | PFXZXMADSM31 | Accessory of 3m separation cable at display and box |
| | PFXZXMADSM51 | Accessory of 5m separation cable at display and box |
| STM6000 Series | PFXSTM6200WAD# | 4" display and box module |
| | PFXSTM6400WAD# | 7" display and box module |
| Rear Module | PFXSTM6B# | Rear Module |
| | PFXSTM6B00D# | Rear Module with DIN rail adapter |
| Display module | PFXSTM62TP# | 4" display Module |
| | PFXSTM64TP# | 7" display Module |
| Cable | PFXZCM6SM3 | Accessory of 3m separation cable at display and box |
| | PFXZCM6SM5 | Accessory of 5m separation cable at display and box |
| | PFXZCM6SM10 | Accessory of 10m separation cable at display and box |
| DIN rail Adapter | PFXZCM6DSA | DIN rail adapter |

* is may be any letter or number that memory size or software combinations.
# is may be any letter(s) or number(s) that indicates color, PCBA coating, memory size or software combinations.
$ Source or Sink output type.

## Product Design Assessment (PDA) Certificate Attachment for Component Details

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| **Product/Equipment:** | Monitor, Graphic Panels |
| **Model:** | Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series |
| | Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series, Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series |
| **Revision:** | 4 |

## Description

| | Magelis | Descriptions |
|---|---|---|
| HMIGTO6 Series | HMIGTO6310# | 12.1" SVGA TFT color LCD, analog touch panel, DC type |
| HMIGTO5 Series | HMIGTO5310# | 10.4" VGA TFT color LCD, analog touch panel, DC type |
| HMIGTO4 Series | HMIGTO4310# | 7.5" VGA TFT color LCD, analog touch panel, DC type |
| HMIGTO3 Series | HMIGTO3510# | 7.0" WVGA Wide TFT color LCD, analog touch panel, DC type |
| HMIGTO2 Series | HMIGTO2310# | 5.7" QVGA TFT color LCD, analog touch panel, DC type |
| | HMIGTO2300# | 5.7" QVGA TFT color LCD, analog touch panel, DC type, small memory |
| HMIGTO1 Series | HMIGTO1310# | 3.5" QVGA TFT color LCD, analog touch panel, DC type |
| | HMIGTO1300# | 3.5" QVGA TFT color LCD, analog touch panel, DC type, small memory |
| HMISTO Series | HMISTO735# | 4.3" TFT color LCD, analog touch panel, DC type, Ethernet type |
| | HMISTO705# | 4.3" TFT color LCD, analog touch panel, DC type, RS-232 |
| | HMISTO715# | 4.3" TFT color LCD, analog touch panel, DC type, RS-422/485 |
| HMISCU6 Series | HMISCU6A5# | 3.5" display and box module with DIO, DC type |
| | HMISCU6B5# | 3.5" display and box module with DIO and AIO, DC type |
| HMISCU8 Series | HMISCU8A5# | 5.7" display and box module with DIO, DC type |
| | HMISCU8B5# | 5.7" display and box module with DIO and AIO, DC type |
| HMISTU Series | HMISTU665# | 3.5" display and box module |
| | HMISTU855# | 5.7" display and box module |
| Box module | HMISAC# | Box module with DIO, DC type |
| | HMISBC# | Box module with DIO and AIO, DC type |
| | HMIS5T# | Box module |
| Display module | HMIS65# | 3.5" display module |
| | HMIS85# | 5.7" display module |
| Cable | HMIZSURDP | Accessory of 3m separation cable at display and box |
| | HMIZSURDP5 | Accessory of 5m separation cable at display and box |
| STM6 Series | HMISTM6200# | 4" display and box module |
| | HMISTM6400# | 7" display and box module |
| Rear Module | HMISTM6B# | Rear Module |
| | HMISTM6BOX# | Rear Module with DIN rail adapter |
| Display module | HMISTM62# | 4" display Module |
| | HMISTM64# | 7" display Module |
| Cable | HMIZM6RDP3 | Accessory of 3m separation cable at display and box |
| | HMIZM6RDP5 | Accessory of 5m separation cable at display and box |
| | HMIZM6RDP10 | Accessory of 10m separation cable at display and box |
| DIN rail Adapter | HMIZM6DSA | DIN rail adapter |

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

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| **Revision:** | 4 |

## Ratings and General Specification

| | GP4000 Series | GP4100 Color Series | LT4000 Series |
|---|---|---|---|
| Rated Input Voltage | 24Vdc | 12-24Vdc | 24Vdc |
| Input Voltage Limits | 19.2-28.8Vdc | 10.8-28.8Vdc | 19.2-28.8Vdc |
| Power Consumption | GP4600 Series: 17W or less<br>GP4500 Series: 17W or less<br>GP4400 Series: 12W or less<br>GP4300 Series: 10.5W or less<br>GP4200 Series: 9.6W or less | 8.1W or less | LT4200 Series: 10W or less<br>LT4300 Series: 13W or less |
| Operated Ambient Air Temperature | 0 to 55℃<br>0 to 50℃<br>(PFXGP4501TADW#, PFXGP4401WADW#,<br>PFXGP4301TADW#, PFXGP4201TAD#,<br>PFXGP4203TAD#, PFXGP4201TADW#) | 0 to 50℃ | 0 to 50℃ |
| Storage Temperature | -20 to 60℃ | -20 to 60℃ | -20 to 60℃ |
| External Dimensions | GP4600 Series: W315xH241xD56mm<br>GP4500 Series: W272.5xH214.5xD57.0mm<br>(PFXGP4501TADW#: W315xH241xD56mm)<br>GP4400 Series: W218xH173xD60mm<br>GP4300 Series: W169.5xH137xD59.5mm<br>GP4200 Series: W132xH106xD42mm | W124.9xH90.4xD38.8mm | LT4200 Series: W128xH102xD75.0mm<br>LT4300 Series: W163xH129.4xD76.3mm |
| Weight | GP4600 Series: 2.5kg or less<br>GP4500 Series: 2.0kg or less<br>GP4400 Series: 1.2kg or less<br>GP4300 Series: 0.8kg or less<br>GP4200 Series: 0.4kg or less | 0.22kg or less | LT4200 Series: 0.53kg or less<br>LT4300 Series: 0.78kg or less |

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| **Revision:** | 4 |

## Ratings and General Specification

| | STM6000 Series |
|---|---|
| Rated Input Voltage | 24Vdc |
| Input Voltage Limits | 19.2-28.8Vdc |
| Power Consumption | STM6200WA Series: 1.0W or less<br>STM6400WA Series: 3.6W or less<br>PFXSTM6B Series: 6.8W or less |
| Operated Ambient Air Temperature | 0 to 50℃ |
| Storage Temperature | -20 to 60℃ |
| External Dimensions | STM6200WA Series: W140.4xH101.1xD13.9mm<br>STM6400WA Series: W201.2xH137.2xD17.1mm<br>PFXSTM6B Series: W145.6xH108.23xD41.4mm |
| Weight | STM6200WA Series: 0.22 kg or less<br>STM6400WA Series: 0.49 kg or less<br>PFXSTM6B Series: 0.27 kg or less |

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| *Revision:* | 4 |

## Ratings and General Specification

| | HMIGTO Series | HMISTO Color Series | HMISCU Series |
|---|---|---|---|
| Rated Input Voltage | 24Vdc | 12-24Vdc | 24Vdc |
| Input Voltage Limits | 19.2-28.8Vdc | 10.8-28.8Vdc | 19.2-28.8Vdc |
| Power Consumption | HMIGTO6 Series: 17W or less<br>HMIGTO5 Series: 17W or less<br>HMIGTO4 Series: 12W or less<br>HMIGTO3 Series: 12W or less<br>HMIGTO2 Series: 10.5W or less<br>HMIGTO1 Series: 9.6W or less | 8.1W or less | HMISCU6 Series: 10W or less<br>HMISCU8 Series: 13W or less |
| Operated Ambient Air Temperature | 0 to 55℃<br>0 to 50℃<br>(HMIGTO3510#, HMIGTO2300#, HMIGTO1310#, HMIGTO1300#) | 0 to 50℃ | 0 to 50℃ |
| Storage Temperature | -20 to 60℃ | -20 to 60℃ | -20 to 60℃ |
| External Dimensions | HMIGTO6 Series: W315xH241xD56mm<br>HMIGTO5 Series: W272.5xH214.5xD57.0mm<br>HMIGTO4 Series: W218xH173xD60mm<br>HMIGTO3 Series: W218xH173xD60mm<br>HMIGTO2 Series: W169.5xH137xD59.5mm<br>HMIGTO1 Series: W132xH106xD42mm | W124.9xH90.4xD38.8mm | HMISCU6 Series: W128xH102xD75.0mm<br>HMISCU8 Series: W163xH129.4xD76.3mm |
| Weight | HMIGTO6 Series: 2.5kg or less<br>HMIGTO5 Series: 2.0kg or less<br>HMIGTO4 Series: 1.2kg or less<br>HMIGTO3 Series: 1.2kg or less<br>HMIGTO2 Series: 0.8kg or less<br>HMIGTO1 Series: 0.4kg or less | 0.22kg or less | HMISCU6 Series: 0.53kg or less<br>HMISCU8 Series: 0.78kg or less |

*Product Design Assessment (PDA) Certificate Attachment for Component Details*

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| *Model:* | Pro-face GP4000 Series, GP4100 Color Series, LT4000 Series, STM6000 Series<br>Harmony or Magelis HMIGTO Series, HMISTO Color Series, HMISTU Series,<br>Harmony HMISTU655, HMISTU855, HMIS65, HMIS85, HMIS5T, STM6 Series |
| *Revision:* | 4 |

## Ratings and General Specification

| | HMISTU Series | STM6 Series |
|---|---|---|
| Rated Input Voltage | 24Vdc | 24Vdc |
| Input Voltage Limits | 20.4-28.8Vdc | 19.2-28.8Vdc |
| Power Consumption | HMISTU655 Series: 6.5W or less<br>HMISTU855 Series: 6.8W or less | STM6200 Series: 1.0W or less<br>STM6400 Series: 3.6W or less<br>HMISTM6B Series: 6.8W or less |
| Operated Ambient Air Temperature | 0 to 50℃ | 0 to 50℃ |
| Storage Temperature | -20 to 60℃ | -20 to 60℃ |
| External Dimensions | HMISTU655 Series: W118xH98.15xD56.3mm<br>HMISTU855 Series: W163xH129.4xD56.5mm | HMISTM6200 Series: W140.4xH101.1xD13.9mm<br>HMISTM6400 Series: W201.2xH137.2xD17.1mm<br>HMISTM6B Series: W145.6xH108.23xD41.4mm |
| Weight | HMISTU655 Series: 0.25kg or less<br>HMISTU855 Series: 0.25kg or less | HMISTM6200 Series: 0.22 kg or less<br>HMISTM6400 Series: 0.49 kg or less<br>HMISTM6B Series: 0.27 kg or less |