



MARINE DIVISION

Certificate number: 09777/C1 BV

File number: ACE 02/131/01

Product code: 2611H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Schneider Electric Industries SAS

L'Isle d'Espagnac - FRANCE

for the type of product

PUSH BUTTONS (LOW VOLTAGE)

CONTROL and SIGNALLING UNITS: XB4-B, XB5-A, XD4-PA, XD5-PA.

Requirements:

BV Rules for the Classification of Steel Ships. IEC 60947 series.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 16 May 2016

For BUREAU VERITAS,

At BV BORDEAUX, on 16 Jun 2011,

Raphael Garnier



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

PUSH BUTTONS and PILOT LIGHTS (low voltage)

Buttons, indicator lamps and buttons with integrated indicator lamps:

Each complete product (XB4-B, XB5-A) includes different parts (operator, fixing base, pilot light, contact).

The different types of parts can be fitted together.

XB4-B: with chromium metallic flange

XB5-A: with plastic flange

Joystick:

2/4 directions: with or without return to middle position.

XD4-PA: with chromium metallic flange

XD5-PA: with plastic flange

Product Type	Rated Voltage Ue (V)	Maximum Operating Current Ie (A)	Remarks
Push Button	Alternative	Current	
XB4-B			IEC 60947-5 - Designation/category
XB5-A	600	1.2	A600 / AC-15
XD4-PA	240	3	""
XD5-PA	120	6	""
Push Button	Direct	Current	
	600	0.1	Q600 / DC-13
XB4-B	250	0.27	""
XB5-A	125	0.55	""
XD4-PA	125	0.22	R300 / DC-13
XD5-PA	250	0.1	""
Electrical Blocks	Alternative	Current	
ZBE5..	240	3	A300 / AC-15
	120	6	
Electrical Blocks	Direct	Current	
	125	1.1	P300 / DC-13
ZBE5..	250	0.55	

2. DOCUMENTS AND DRAWINGS:

- According to Document titled "Unités de commande et de signalisation D.22 à collerette métallique chromée" issued by Telemecanique.

- According to Document titled "Unités de commande et de signalisation D.22 à collerette plastique" issued by Telemecanique.

- Technical Data Sheet Harmony XB4 metal Pushbuttons, switches and pilot lights ref:36001-EN.indd version 17.0 dated ?

- Technical Data Sheet Harmony XB5 plastic Pushbuttons, switches and pilot lights ref:36001-EN.indd version 16.0 dated ?

3. TEST REPORTS:

According to Approval Tests N°s:

- SE 3 A 00 37 02
- SE 3 A 00 43 02
- SE 3 A 00 67 02
- SE 3 A 00 40 03
- SE 3 A 00 19 02
- SE 3 A 00 20 02
- SE 3 A 00 08 03
- SE 3 A 01 15 01
- SE 3 A 00 02 98
- SE 3 A 00 90 02
- NH3 1529922
- NH3 1529917
- NH3 1529920
- NH3 1529921
- According to ACE02/003/27 Essais de Vibrations Sinusoïdales et de chocs N°9702002 dated 1997.
- Rapport d'essai n°08-2751 Ref: Cofrac.DOC dated 14.10.2008
- Rapport d'essai n°08-3295 Ref: Cofrac.DOC dated 20.11.2008
- Rapport d'essai n°08-3296 Ref: Cofrac.DOC dated 21.11.2008

- Rapport d'essai n°08-3306 Ref: Cofrac.DOC dated 20.11.2008
- Rapport d'essai n°08-3454 Ref: Cofrac.DOC dated 20.02.2009
- Rapport d'essai n°08-3460 Ref: Cofrac.DOC dated 15.01.2009
- Rapport d'essai n°11-0989 Ref: IP69K High Pressure water test ZB5-ACdated 05.04.2011
- Rapport d'essai n°11-1013 Ref: IP69K High Pressure water test ZB5-ACdated 07.04.2011
- Rapport d'essai n°11-1014 Ref: IP69K High Pressure water test ZB4-BCdated 07.04.2011

4. APPLICATION / LIMITATION:

- BV Rules for the Classification of Steel Ships and IEC60947 Series.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be manufactured, examined and tested by **Schneider Electric Industries SAS - France** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **Schneider Electric Industries SAS - France** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **Schneider Electric Industries SAS - France** has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

Schneider Electric France SAS
Zone Industrielle
BP660
16340 L'Isle d'Espagnac
FRANCE

6. MARKING OF PRODUCT:

6.1 - According to IEC 60947.

6.2 - Trade mark Telemecanique or Schneider Electric.

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Schneider Electric Industries SAS, L'Isle d'Espagnac - France**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° **09777/C0 BV** issued on 16/05/2011 by the Society.

*** END OF CERTIFICATE ***