



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA23487M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	Autronica Fire and Security AS
Place of Manufacturing:	Bromstadveien 59, NO-7047 Trondheim, Norway
Product description:	Input / Output Units
Model:	BN-303, BN-304, BN-305, BN-307, BNB-330A, BNB-331, BNY 330
Approval No.:	13A030
Valid until:	31 October 2028

The details are described in the attached sheet(s).

Issued at Tokyo on 16 October 2023.

S. Oishi
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

NIPPON KAIJI KYOKAI

Attached sheet -1/2 to the Certificate No. TA23487M

Specification & documents:

1. Particulars: Power supply: 24 VDC

2. Components and reference drawings:

116-P-BN303/CGB, Rev. A, 2015-06-05

116-P-BN304/CGB, Rev. B, 2016-06-08

116-P-BN305/CGB, Rev. C, 2016-02-02

116-P-BN307/CGB Rev. D, 2014-05-30

116-P-BNB330A/CGB, Rev. C, 2017-12-19

116-P-BNB331/CGB, Rev. B, 2015-07-07

3. Documentation and Test Reports:

DNV Test report (No. 2010-3107) dated 5 May 2010

Nemko Test report (No. E12044.00) dated 29 May 2012

Nemko Test report (No. E12211.01) dated 16 November 2012

Nemko Test report (No. E18217.00) dated 15 November 2018

Declaration IACS UR E10 Rev.8 dated 2023.10.02

- To be continued -

Attached sheet -2/2 to the Certificate No. TA23487M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		--
Power supply fluctuation test	Electric	--
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g × 2 hours)		X
Inclination test		--
Cold test (Temperature -15°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		--
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		--
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed in the bridge and open decks.

- The End -