



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No.TA19029M

**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 2023**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 1 November 2018.

  
T. Shimada  
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.TA19029M

**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

**- To be continued -**

**Test items & approval conditions:**

## 1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		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 (Frequency range 80 MHz to 6 GHz)		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 (Frequency range 0.15 MHz to 6 GHz)		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 -**