



CERTIFICATE NUMBER 21-2146978-PDA  
EFFECTIVE DATE 11-Aug-2021  
EXPIRY DATE 10-Aug-2026  
ABS TECHNICAL OFFICE Houston ESD - Piping

## CERTIFICATE OF Product Design Assessment

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

### **HONEYWELL INTERNATIONAL INC, NOTIFIER**

#### **DIV**

located at

**12 CLINTONVILLE ROAD, NORTHFORD, CT, United States, 06472**

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:** Fire Detection and Alarm System  
**Model:** NFS2-3030  
**Endorsements:**  
**Tier:** 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 10/Aug/2026 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

Yongjin Lee, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

## HONEYWELL INTERNATIONAL INC

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Fire Detection and Alarm System

**Model:** NFS2-3030

**Endorsements:**

### **Intended Service:**

Fire Alarm Control Panel (FACP) for used on ABS classed marine vessels & offshore installations.

### **Description:**

NFS2-3030 is an intelligent Fire Alarm Control Panel (FACP) designed for medium to large size facilities. With one to ten Signaling Line Circuits (SLCs), the NFS2-3030 supports up to 3,180 intelligent addressable devices. This FACP can be networked with other FACPs in the Onyx series such as NFS2-640 and NFS-320.

NFS2-3030 Fire Detection and Alarm System consists of a control panel enclosed inside a marine rated cabinet with internally mounted batteries or separate battery cabinet, annunciators, modules, accessories, initiating devices, and notification devices listed in Marine Equipment Kit, Marine-EQ Systems Product Installation Document, P/N 54756:B4 dated 23 April 2019;

For detailed System Capacity & Specifications, see Notifier LS10006-051NF-E\_E5, 52482-M6, LS10106-000NF-E\_A, 53128-A;

See attached pdf for compatible components.

### **Rating:**

Input Voltage: 120 VAC, 50/60 Hz, 4.5A & 240 VAC, 50/60 HZ, 2.25A;

DC Output: 24 VDC up to 5.0 A ;

Operating Temperature range: 0 °C - 49 °C (32 °F - 120 °F);

Humidity: 0% to 93% ± 2%;

Enclosure: NEMA 4X, IP55 with CAB-BM marine cabinet

### **Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

1) For use on US Flagged vessel, the Fire Alarm Control Panel and associated components must be selected from the same component list approved by the USCG.

2) Devices in the approved component list that may be installed in areas requiring exceptional degrees of protection (i.e., wet/ damp locations such as galleys, machinery spaces, and cargo spaces) are as follows.

Backboxes: BBS-2, BBSC-2, BBSCW-2, BBSW-2, SA-WBB, SA-WBBC, SA-WBBCW and SA-WBBW.

Bases: all.

Manual pull stations: all.

Chimes/ horns/ strobes: all.

Control modules: FCM-1, FDRM-1, XP6-C, XP6-R, and FCM-1-Rel.

Relay module: FRM-1 & EOLR-1.

Monitor modules: FDM-1, FMM-1, FMM-101, FMM-4-20, XP10-M, and FZM-1.

Loop fault isolator module: ISO-X.

### **Comments:**

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

1. Each configuration and installation is to be in compliance with the IMO FSS Code.

2. The control panel unit is to be installed on the navigating bridge or in the continuously manned central control station.

3. Additional indicating units are to be provided so as to be easily accessible at all times to responsible members of the crew.

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4. Suitable instructions and component spares for testing and maintenance are to be provided to the end user.
5. IP rating of equipment is to be in compliance with 4-8-3/Table 2 of the Marine Vessel Rules or 4-3-3/Table 1 of the Mobile Offshore Unit Rules.

#### **Notes/Drawing/Documentation:**

Drawing No. Differences in Revisions, Differences in Revisions, Revision: -, Pages: 1

Drawing No. Updated List of Compatible Devices for NFS2-3030, Updated List of Compatible Devices for NFS2-3030, Revision: 2, Pages: 5

Drawing No. USCG Certificate 161.002/55/0, USCG Certificate for FIRE DETECTION SYSTEMS, Revision: -, Pages: 2

#### **Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 10/Aug/2026 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).

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#### **STANDARDS**

##### **ABS Rules:**

The Rules for Conditions of Classification, 2021 Marine Vessel Rules 1-1-4/7.7, 1-1-A3,1-1-A4, which covers the following:

2021 Rules for Building and Classing Marine Vessel Rules: 4-7-3/11, 4-8-3/Table 2, 4-9-8/Table 1

The Rules for Conditions of Classification, Offshore Units and Structures, 2021 Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2021 Rules for Building and Classing Mobile Offshore Units: 4-3-3/Table 1, 5-2-5/1.1

##### **National:**

UL 864, Control Units and Accessories for Fire Alarm Systems, 10th Edition, December 1, 2014;

ANSI/UL 268, Smoke Detectors for Fire Alarm Systems, Edition 7, January 11, 2016;

ANSI/UL 268A, Smoke Detectors for Duct Application, Edition 4, September 25, 2009;

ANSI/UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories, Edition 10, January 28, 2016;

ANSI/UL 521, Heat Detectors for Fire Protective Signaling Systems, Edition 7, May 19, 2010;

ANSI/UL 2075, Gas and Vapor Detectors and Sensors, Edition 2 dated March 05, 2013;

ULC CAN-S529, Smoke Detectors for Fire Alarm Systems, Edition 4, October 31, 2019;

ULC CAN-S530, Heat Actuated Fire Detectors for Fire Alarm Systems, 1st Edition, May 2021;

ULC CAN-S588, Gas and Vapor Detectors and Sensors, Including Accessories, 1st Edition, April 2017;

##### **International:**

IMO FSS Code Chapter 9:2015

##### **Government:**

USCG Approval No. 161.002/55/0 issued: 7 September 2016, Expires: 22 July 2022

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**EUMED:**

NA

**OTHERS:**

IACS UR E10, Rev.7:2018