



## Confirmation of Product Type Approval

**Company Name:** HONEYWELL INTERNATIONAL INC, NOTIFIER DIV

**Address:** 12 CLINTONVILLE ROAD CT 06472 United States

**Product:** Fire Detection and Alarm System

**Model(s):** NFS2-640 and NFS-320

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	20-2035119-PDA	30-OCT-2020	29-OCT-2025
Manufacturing Assessment (MA)	21-4998556	27-OCT-2021	28-NOV-2026
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

Fire Alarm Control Panels (FACP) for use on ABS classed marine vessels and offshore installations.

### **Description**

NFS-320 and NFS2-640 are Onyx series intelligent Fire Alarm Control Panels (FACPs) for small to medium size facilities.

NFS-320 has one Signaling Line Circuit (SLC) that supports up to 159 detectors and 159 modules;

NFS2-640 also has one Signaling Line Circuit (SLC) but is expandable to two SLCs that supports up to a total of 636 devices.

These FACPs can be networked with other FACPs in the Onyx series.

Fire Detection and Alarm Control Panel System NFS2-640 and NFS-320. Includes control panel, annunciators, modules, accessories, initiating devices, and notification devices listed in Marine Equipment Kit, Marine-EQ,

Product Installation Document P/N 54756:B4 dated 23 April 2019.

System Capacity & Specifications: See Honeywell International Inc. ULLD (52741LD-H4 & 52745LD-G4), SLC Manual (51253-U6), Notifier Device Compatibility Document (15378-BU).

see attached pdf for components list.

### **Ratings**

Input Voltage: 120 VAC, 50/60 Hz, 3.0A & 220/240 VAC, 50/60 HZ, 1.5A;

Total Output 24 VDC, 6A in Alarm;

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

Humidity: 0% to 93% ± 2%;

Enclosure: NEMA 4X with CAB-BM marine cabinet

### **Service Restrictions**

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.

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, and FCM-1-Rel.

Relay module: FRM-1.

Monitor modules: FDM-1, FMM-1, FMM-101, and FZM-1.

Loop fault isolator module: ISO-X.

### **Comments**

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

### **Notes, Drawings and Documentation**

Document No. 15378-BU, Device Compatibility Document, Revision: BU, 7/20/2020;

Document No. 51253\_U6, SLC Wiring Manual, Revision:U6, 10/21/2019;

Document No. 52741LD-H4, NFS2-640 Listing Document, 9/9/2020;

Document No. 52745LD\_G4, NFS-320 and NFS-320SYS Listing Document, 9/9/2020;

ISO9001\_Honeywell Fire Safety, Certificate of Registration, Certificate of Registration by Intertek Cert. No. 93-040p, issuing date: 28-Sep-2018, valid until: 03-Jun-2020

UL File S635, last updated 30 September 2020;

UL Certificates of Compliance:

Certificate Number 20181008-S747, Report Reference S2101-20170929, Issue Date 2018-OCTOBER-08;

Certificate Number S4011, Report Reference S4011-20190613, Issue Date 2020-MARCH-03;

Certificate Number 20181004-S911, Report Reference S911-19880830, Issue Date 2018-OCTOBER-04;

Certificate Number 20181004-S911, Report Reference S911-19941205, Issue Date 2018-OCTOBER-04;

Certificate Number 20181004-S911, Report Reference S911-20051101, Issue Date 2018-OCTOBER-04;

Certificate Number 20181004-S911, Report Reference S911-20090428, Issue Date 2018-OCTOBER-04;

Certificate Number 20181004-S911, Report Reference S911-20091023, Issue Date 2018-OCTOBER-04;

Certificate Number 20181004-S911, Report Reference S911-20140930, Issue Date 2018-OCTOBER-04;

Certificate Number 20181011-S1115, Report Reference S911-20170929, Issue Date 2018-OCTOBER-11;

Certificate Number 20171226-S911, Report Reference S911-20171221, Issue Date 2017-DECEMBER-26;

Certificate Number 20180719-S1115, Report Reference S911-20180531, Issue Date 2018-JULY-19;

Certificate Number 20190405-S911, Report Reference S911-20190319, Issue Date 2019-APRIL-05;

Certificate Number 20190328-S1115, Report Reference S911-20190320, Issue Date 2019-MARCH-28;

Certificate Number 20190329-S1115, Report Reference S911-20190321, Issue Date 2019-MARCH-29;

Certificate Number 20190328-S1196, Report Reference S911-20190327, Issue Date 2019-MARCH-28

### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 29/Oct/2025 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.

### **ABS Rules**

Rules for Conditions of Classification, Part 1 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2020 Marine Vessel Rules 4-7-3/11, 4-8-3/Table 2, 4-9-8/Table 1

ABS Rules for Conditions of Classification, Part 1 – 2020 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2020 Mobile Offshore Units 4-3-3/Table 1, 5-2-5/1.1

**International Standards**

IMO FSS Code Chapter 9:2015

**EU-MED Standards**

NA

**National Standards**

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, December 11, 2008;

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, February 19, 1999;

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

CAN/ULC-S529, Smoke Detectors for Fire Alarm Systems, Edition 4, January 11, 2016;

CAN/ULC-S530, Heat Actuated Fire Detectors for Fire Alarm Systems, May 1, 1991;

CAN/ULC-S588, Gas and Vapor Detectors and Sensors, Including Accessories, April 1, 2017

**Government Standards**

USCG Approval No. 161.002/50/0 dated 7 September 2016, Expires: 22 July 2021

**Other Standards**

IACS UR E10, Rev. 6: 2014



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Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 25-Aug-2022 5:06

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.