



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 30/OCT/2017. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 08/NOV/2017 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

Product Name: Gas Detector, Infrared

Model Name(s): Searchline Excel IR Open Path Gas Detector comprising infra red gas detector, transmitters and receiver units with Termination Units DVC100(M) or DX100, Junction Box (Bartec) OTB-122 and optional XNX Universal Transmitter

Presented to:

HONEYWELL ANALYTICS
HATCHPOND HOUSE, 4 STINSFORD ROAD
NUFFIELD INDUSTRIAL ESTATE
POOLE
United Kingdom

Intended Service:	Steel vessels, offshore installations.
Description:	Infrared open path gas detector with path length ranges of 5 to 40m, 40 to 120m and 120 to 200m
Ratings:	Power Supply: 18-32V DC, 13.5W max (Searchline Excel Receiver with XNX Transmitter); Temperature range -40C to +65C; IP66/67; RH 0% to 99% (non-condensing)
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.
Comments:	Each application is to be specifically approved and in accordance with the type of protection and markings as indicated on the corresponding IECEx Certificate of Conformity. Consideration is to be given to the flammability group and the temperature class of the equipment for suitability for the intended hazardous area. Special conditions for safe use as indicated on the corresponding IECEx Certificate of Conformity are to be complied with.

Notes / Documentation: This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. Test Reports: Report No. GB/BAS/ExTR11.0031/00, Report No. GB/BAS/ExTR11.0031/00

Term of Validity: This Product Design Assessment (PDA) Certificate 10-LD651766-1-PDA, dated 09/Nov/2012 remains valid until 08/Nov/2017 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules: The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: Steel Vessel Rules 2012 1-1-4/7.7, 4-8-3/13.3.2 , 4-8-3/13.3.1, 4-8-3/13.3.3, 4-8-4/27.5.1, Rules for Building and Classing Facilities on Offshore Installations 2012 3-6/15.3

National Standards:

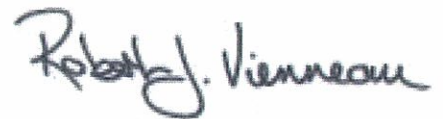
International Standards: IEC 60079-0:2004 Ed4.0, IEC 60079-0:2007-10 Ed5, IEC 60079-1:2003 Ed5, IEC 60079-1:2007-04 Ed6, IEC 60079-7:2001 Ed3, IEC 60079-7:2006-04 Ed4, IEC 60079-11:2006 Ed5, IEC 60079-18:2004 Ed2.0; IEC 61241-0:2004 Ed1, IEC 61241-1:2004 Ed1 as indicated on corresponding IECEx Certificates

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	10-LD651766-1-PDA	09/NOV/2012	08/NOV/2017



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.