



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 10-FEB-2020. 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 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: Manual Call Point
Model Name(s): Intrinsically Safe, Type PB1

Presented to:
EATON MEDC LIMITED
UNIT B, SUTTON PARKWAY
ODDICROFT LANE
NG17 5FB
United Kingdom

Intended Service: ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description: Activation of the Manual Call Point Type PB1 is to initiate a fire alarm signal onboard an ABS Classed vessel, MODU or facility. The unit comprises of a polyester enclosure, terminal block and a push button switch under a flap. LED indication and end-of-line resistor are available as options. The Manual Call Point Type PB1 is considered to comply with the requirements for the Intrinsically Safe Apparatus for the level of protection ia, Group IIC, Temperature Class T4 and Group IIIC, Temperature Class T135C.

Tier: 3

Ratings: Input parameters: 30 V, 147 mA, P 0.8 W Intrinsically Safe: Ex ia IIC T4 Ga (-40 Degrees C <=Ta <= +70 Degrees C) Input parameters: 28 V, 93 mA, P 0.65 W Intrinsically Safe: Ex ia IIIC T135 Degrees C Da (-40 Degrees C <=Ta <= +70 Degrees C)

Service Restrictions: Unit Certification is not required for this product.

Comments: Installation is to be in accordance with any applicable conditions of certification detailed on the IECEx Certificate of Conformity. Electrical equipment intended for installation in hazardous areas is to be of a certified safe type based on the class of

the hazardous area at its location of installation as detailed in 4-8-3/13.1 of the ABS Rules for Building and Classing Steel Vessels 2015. Certificates in this regard are to be presented to the ABS Surveyor for verification on a case by case basis. Equipment has been tested to the applicable IEC 60079 series standards by an independent laboratory listed on the United States Coast Guard Maritime Information Exchange Accepted Laboratories list, Approval Series 111.105 (SGS Baseefa Ltd.) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes / Documentation:

Drawing No. 03ATEX0084X-5 EXI, Supplementary EC - Type Examination Certificate, Revision: 0, Pages: 1 Drawing No. 180-505, Locking Ring PBE/I/W, Revision: B, Pages: 1 Drawing No. 180-513, Production Ga PBE/I/V, Revision: E, Pages: 1 Drawing No. 180-515, PB LID M/C Detail PBE/I/W, Revision: H, Pages: 1 Drawing No. 180-537, Plunger (Latching) PBE/L/W, Revision: G, Pages: 1 Drawing No. 380-283, Lift Flap Pb Call Point, Revision: A, Pages: 1 Drawing No. 380-448, Atex Certification GA, Revision: B, Pages: 1 Drawing No. 380-448, Atex Certification GA PBI Push Button, Revision: B, Pages: 1 Drawing No. 380-456B, PBI Push Button, Revision: B, Pages: 1 Drawing No. 480-215, Pushbutton Lift Flap Mould Detail, Revision: A, Pages: 1 Drawing No. 480-216, PB Lift Flap Pivot Block Mould Detail, Revision: A, Pages: 1 Drawing No. 480-217B, Cover Moulding Push Button, Revision: B, Pages: 1 Drawing No. 480-246, PB General Assembly, Revision: F, Pages: 1 Drawing No. 480-248, PB Lift Flap Gasket, Revision: C, Pages: 1 Drawing No. 480-249, PB Plunger Locking Ring, Revision: A, Pages: 1 Drawing No. GB/BAS/EXTR12.0220/00, IECEx Test Report - IEC 60079-0, Revision: 0, Pages: 1 Drawing No. IECEX BAS12.0093X, IECEX Certificate of Conformity, Revision: -, Pages: 1 Drawing No. IECEX BAS12.0093X, IECEX Certificate of Conformity, Revision: -, Pages: 2 Drawing No. NEW PB, NEW PB, Revision: -, Pages: 1

Term of Validity:

This Product Design Assessment (PDA) Certificate 15-LD1312296-PDA, dated 11/Feb/2015 remains valid until 10/Feb/2020 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:

- Steel Vessels (2015) 1-1-4/7.7, 1-1-A3&A4 4-8-3/1.7, 4-8-3/1.11, 4-8-3/13.3.1 - Steel Vessels Under 90 Meters (295 Feet) in Length (2015) 1-1-4/7.7, 1-1-A3&A4, 4-6-1/11, 4-6-1/15, 4-6-3/11.1.1(a) Ex i, 4-6-3/11.3, 4-6-4/7.9 - Mobile Offshore Drilling Units (2015) 1-1-4/9.7, 1-1-A2&A3, 4-3-1/3.15, 4-3-1/15, 4-3-3/3.1, 4-3-3/9.1.2(a), 4-3-3/9.1.3 - Offshore Support Vessels (2015) 1-1-4/7.7, 1-1-A3&A4 4-8-3/1.7, 4-8-3/1.11, 4-8-3/13.3.1 - Facilities on Offshore Installations (2015) 1-1-4/9.7, 1-1-A2&A3 - Steel Vessels for Service on Rivers and Intracoastal Waterways (2015) 1-1-4/7.7, 1-1-A3&A4, 4-5-1/13, 4-5-1/17, 4-5-3/11.1.1(a) Ex i - High-Speed Craft (2015) 1-1-4/11.9, 1-1-A2&A3; 4-6-1/3.21.1, 4-6-3/9.1.1(a) Ex i - Steel Barge (2015) 1-1-4/7.9, 1-1-A3&A4

National Standards:**International Standards:**

IEC 60079-0 Ed6.0:2011, IEC 60079-11 Ed6.0:2011, EN 60079-0:2012, EN 60079-11:2012

Government Authority:**EUMED:****Others:****Model Certificate****Model Certificate No****Issue Date****Expiry Date**

PDA

15-LD1312296-PDA

11-FEB-2015

10-FEB-2020



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.