TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00009CV

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: Flame detectors – Point detectors

with type designation(s)
JTG-IRC-501

issued to
WUXI BRIGHTSKY ELECTRONIC CO.,LTD
Wuxi City, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2025/1533,**
item No. MED/3.51e. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IGF Code 11 and IMO MSC.1/Circ.1242

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2031-02-04**.

Issued at **Høvik** on **2026-02-05**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Heinz Scheffler

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer’s Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Flame detector designed for use with Brightsky's interactive fire alarm system JB-QBC-501.

Type	Description	Degree of protection
JTG-IRC-501	Addressable IR2 flame detector (class 1)	IP44

Technical data:

- 2 wavelengths of IR to detect flame
- built-in isolator (comply with EN 54-17)
- sensitivity class 1: respond at distances up to and including 25 m
- built-in indicator for alarm

Software-Version:

- JTG-IRC-501-COMM_V1.0.MTP
- JTG-IRC-501-SENSOR_V1.0. MTP

Application/Limitation

The equipment is found to comply with following location/application dependent requirements (for definition of each of the location classes, see below the table):

MODEL	TEMPERATURE	VIBRATION	EMC
JTG-IRC-501	TEM-D	VIB-A	EMC-B

Definition of the location classes with reference to relevant standards:

- **Temperature:** TEM-D: Protected (-25°C to +70°C) (ref. IEC 60092-504:2016 table 1 item 6-7)
- **Vibration:** VIB-A: For general applications etc.(±1.0mm/0.7g) (ref. IEC 60092-504:2016 table 1 item 10)
- **EMC:** EMC-B: All locations incl. bridge and open deck (ref. IEC 60092-504:2016 table 1 item 13-20)

Type Examination documentation

hidden

Tests carried out

- Applicable tests according to:
- EN 54-10:2002 incl. A1:2005
- EC 60092-504:2016
- IEC 60533:2015

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trademark
- Type designation
- Mark of Conformity (wheel mark), followed by:
  - identification number of the NoBo involved in production control (MED D)
  - the year the mark is affixed
  - Example: 0575/2025

END OF CERTIFICATE