DNV·GL

Certificate No:
MEDB00006DK

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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)
Interactive fire detectors

Issued to
Autronica Fire and Security AS
Trondheim, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
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
item No. MED/3.51g. 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 **2025-01-27**.
Issued at **Høvik** on **2020-01-28**

DNV GL local station:
Norway CMC, Mid-North

Approval Engineer:
Ståle Sneen

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Job Id: **344.1-001925-15**
Certificate No: **MEDB00006DK**

Product description

Interactive fire detectors designed according to EN54 for use with Autronica's interactive fire detection systems:

BG-201	Interactive IR flame detector with isolator
BG-21	Conventional IR flame detector

Application/Limitation

The equipment are 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	ENCLOSURE
BG-21	TEM-D	VIB-A	EMC-B	IP 66/67
BG-201	TEM-D	VIB-A	EMC-B	IP 66/67

Definition of the location classes with reference to relevant standards:
- Temperature: TEM-D – Location (-25°C-70°C) (ref. IEC 60092-504:2016 table 1 item 6-7)
- Vibration: VIB-A – For general applications (ref. IEC 60092-504:2016 table 1 item 10)
- EMC: EMC-B – Bridge and open deck zone (ref. IEC 60092-504:2016 table 1 item 13-20)
- Enclosure: IP 66/67 (ref. IEC 60092-201:1994 table 5)

Type Examination documentation

Equipment	Scope	Document	No.
BG-21	EN 54-10	BRE Global Test Report, TE276617, 05-11-2012	86
	IEC60092-504, IEC60533	Nemko, Test Report, E12044.00 dated 2012-05-29 Nemko, Test report (supplemental), E18217.00	84 152
	Instructions BG-201/BG-21	116-P-BG201-BG21/DGB, 2012-10-10	92
	Product data	Autronica, Data Sheet, 116-P-BG21/CGB, 2012-10-10 Autronica, Data Sheet, 116-P-BG21/WGB, 2012-10-10	88 89
BG-201	EN 54-10, EN 54-17	BRE Global Test Report, TE276617, 05-11-2012	86
	EN 54-10, EN 54-17:clause 4.9	BRE Global Test Report, TE276617-SW-A1, 11-10-2012	87
	IEC60092-504, IEC60533	Nemko, Test Report, E12044.00 dated 2012-05-29 Nemko, Test report (supplemental), E18217.00	84 152
	Instructions BG-201/BG-21	116-P-BG201-BG21/DGB, 2012-10-10	92
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Tests carried out

Applicable tests according to:
- EN 54-10:2002 incl. A1:2005
- EN 54-17:2005 incl. AC:2007 (for isolator)
- IEC 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 trade mark
- 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: 0575/2020