

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000078F

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

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)

Spectrex SharpEye 40/40 series Flame Detectors & 975 Series Flame Detectors

Issued to

**Rosemount Inc.
Shakopee, MN, USA**

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,

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

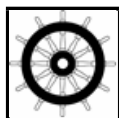
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-05-24**.

Issued at **Hamburg** on **2021-05-25**

DNV local station:
Certification & Inspection Services

Approval Engineer:
Didier Girardin



Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

The SharpEye 40/40 series Flame Detectors & 975 Series Flame Detectors are manufactured from stainless steel or aluminium.

Nomenclature Spectrex SharpEye 40/40 series 40/40D-x-xxxxxxxx [40/40D-x ₁ -x ₂ x ₃ x ₄ x ₅ x ₆ x ₇ x ₈ x ₉] ¹⁾		
X ₁ Sensor type	I	IR3 (Triple IR)
	M	Hydrogen + Hydrocarbon
	LB	with BIT (UV/IR)
	L4B	IR at 4. µM with BIT (UV/IR)
X ₂ Wiring	6	Universal
X ₃ Temperature	3	-60°C-+85°C
X ₄ (Elec. Entries)	1	M25
	2	3/4"NPT
X ₅ Enclosure	S	Stainless Steel
	A	Aluminium
X ₆ ²⁾ EX -Approval	B	Immetro,
	F	FM, FM, FMC, CSA US/C
	C	ATEX, IECEX
	R	EAC CU TR
X ₇ Mounting	K	Kazakhstan
	Y	Tilt Mount
X ₈ ²⁾ Protective Cover	N	Not Tilt Mounted
	0	without,
	7	Plastic,
X ₉	8	Stainless steel
	H	Hot CO2

Nomenclature 975 Series 975xxxxxxxx [975x ₁ x ₂ x ₃ x ₄ x ₅ x ₆ x ₇ x ₈ x ₉] ¹⁾		
X ₁ Sensor type	MR	IR3 (Triple IR)
	HR	Hydrogen + Hydrocarbon
	UF	with BIT (UV/IR)
	UR	IR at 4. µM with BIT (UV/IR)
X ₂ Wiring	4U	Universal
X ₃ (Elec. Entries)	8	M25
	6	3/4"NPT
X ₄ Enclosure	S	Stainless Steel
	A	Aluminium
X ₅ Temperature	3	-60°C-+85°C
X ₆ ²⁾ EX -Approval	E2	Immetro,
	A2	FM, FM, FMC, CSA US/C
	A1	ATEX, IECEX
	EM	EAC CU TR
X ₇ Mounting	KZ	Kazakhstan
	Y	Tilt Mount
X ₈ ²⁾ Protective Cover	N	Not Tilt Mounted
	0	without,
	7	Plastic,
X ₉	8	Stainless steel
	H	Hot CO2

Note:

- ¹⁾ Firmware: S87701, S87702
- ²⁾ Not covered by present certificate



Job Id: **344.1-011244-1**
Certificate No: **MEDB000078F**

Marking of product

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

- Manufacturer's name
- Type designation with device type
- Serial Number
- Mark of Conformity

END OF CERTIFICATE