

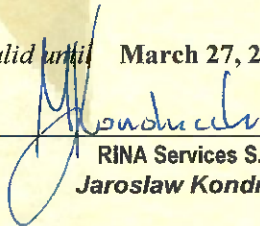


TYPE APPROVAL CERTIFICATE
No. ELE014023XP

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Temperature switches
<i>Type</i>	MBE 8100
<i>Applicant</i>	DANFOSS A/S
	DK_6430 Nordborg
	DENMARK
<i>Manufacturer</i>	DANFOSS SP. Z O.O.
<i>Place of manufacture</i>	Ul. Chrzanowska 5
	05_825 Grodzisk Mazowiecki
	POLAND
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **Gdansk** on **March 28, 2023**. *This Certificate is valid until* **March 27, 2028**


RINA Services S.p.A.
Jaroslaw Kondracki



This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. ELE014023XP

Enclosure - Page 1 of 1

MBC 8100

Product Description:

Technical data:

Setting range (°C)	-10 /30	20 /60	50 /100	70/120	60/150	100 /200
Fixed diff. (°C)	3	3	4	5	6	7
Max. temp. (°C)	80	130	200	220	250	300

MBC 8100 temperature switch is available with the following types of sensor:

- Capillary tube
- Armoured capillary tube
- Rigid sensor

Contact load (Alternating current):

Inductive: 0,5 A, 250 V, AC 15

Direct current: 12 W, 125 V, DC 13

Switch: Single-pole changeover switch (SPDT)

Ambient temperature: -40 to +70°C

Vibration resistance: Sin 4 g, 5 Hz - 200 Hz acc. to IEC 68-2-6.*)

*) If higher vibrations are present in the system / installation, temperature controls with capillary tubes or armoured capillary tube are recommended.

Enclosure: IP 65

Documents:

Danfoss technical brochure: IC.PD.P10.D8.02 dated 2017.02

Danfoss drawing n° 061B9014 ver. 07, 061R9015 ver. 03

Danfoss data sheet AI224986437571en-000902 dated 2022.11

Test Reports:

Danfoss test reports n° MBC 3-921622, 20010333, 20010420, 20010461, 20010388

Remarks:

- The products fulfill **EC-Code: 43**.
- MBC 8100 temperature switch is suitable for installation on power distribution zone only.
- This certificate replace the certificate no.: ELE364617XG.^{SN}

Gdansk March 28, 2023

