



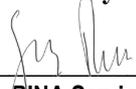
**TYPE APPROVAL CERTIFICATE**

No.  
**ELE086320XG/002**

**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>	<b>Pressure switches</b>
<i>Type</i>	<b>Series MBC 5100</b>
<i>Applicant</i>	<b>DANFOSS A/S Nordborgvej 81 DK-6430 Nordborg (office E14-S1) DENMARK</b>
<i>Manufacturer</i>	<b>DANFOSS POLAND SP. Z.O.O.</b>
<i>Place of manufacture</i>	<b>UL. CHRZANOWSKA 5 PL-05-825 GRODZISK MAZOWIECKI POLAND</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.</b>

Issued in **HAMBURG** on **July 15, 2020**. This Certificate is valid until **July 14, 2025**

  
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**RINA Services S.p.A.**  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**

No.

**ELE086320XG/002**

**Enclosure - Page 1 of 1**

**Series MBC 5100**

Pressure switches Series **MBC 5100**

Pressure range:

0.2 - 10 bar	(Low pressure bellow)
5.0 - 30 bar	(High pressure bellow)
0.5 - 25 bar	(Low pressure diaphragm)
5.0 - 100 bar	(High pressure diaphragm)
16 - 400 Bar	(High pressure piston)

Low differential (fixed microswitch)

Remark: Premounted cable version is covered by this certificate

**Reference Documents:**

Danfoss Instruction: 061R9302

Danfoss Data sheet: Heavy duty pressure controls MBC500 / MBC 5100 - IC.PD.P10.A1.02-520B1771

Appendix 1 to vibration tests BOS-3087-BS-14\_BOS-3088-BS-14.pdf

BOS-3088-BS-14 vibration test - pressure switch.pdf

Data Sheet TE Cable v.03.pdf

DNV TE HF Cable Certificate.pdf

e-13397.pdf

IC.PI.P10.D1.02.pdf

TR\_8540\_NZL-NBR\_1014\_Test IP65.pdf

*This certificate replace the previous certificate ELE013615XG.*

**HAMBURG July 15, 2020**

