

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. A-13149

This is to certify that the **Pressure Switch**

with type designation(s) KP 1, -1A, -2, -5, -5A, -6W, -6B, -7B, -7S, -7BS, -7W, -7ABS, -15, -15A, -17B, -17W and KP 15, -15A, -17W, -17WB with LP and HP signal contacts

Manufactured by

Danfoss A/S NORDBORG, Denmark

is found to comply with Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application Location classes:

Temperature	D
Humidity	В
Vibration	В
EMC	N/A
Enclosure	Α

	Odd Magne Nesvåg
Approval Engineer: Nils Jarem	
DNV local station: Fredericia	101 Det Noiske Ventas Ad
ssued at Høvik on 2013-02-11	for Det Norske Veritas AS
This Certificate is valid until 2016-12-31 .	

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Org.No. NO 945 748 931 MVA. www.dnv.com Form No.: TA 1411a Issue: December 2012 Page 1 of 2

Certificate No.: A-13149	
File No.:	895.10

Job Id.: 262.1-007161-2

Approval Condition

The Type Approval covers hardware listed under Type designation. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Place of Manufacture

Danfoss Poland Sp. z o.o. PL-05-825 Grodzisk Mazowiecki Poland

Type Approval documentation

Data sheet: DKRCC.PD.CD0.A3.02 / 520H6839 Drawings: 060-9101 ver.04, 060-9102 ver.01

DNV Gdansk Certificate retention survey report for A-11176, dated 2013-01-03

Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the survey are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE

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Page 2 of 2