

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

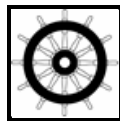
Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

**This is to certify:****That the Gyro compass; Gyro compass for HSC; Rate-of-turn indicator**with type designation(s)  
**LFK-150**

Issued to

**Northrop Grumman LITEF GmbH  
Freiburg, Germany**is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2018/773**,**item No. MED/4.3. SOLAS 74 as amended, Regulations V/18, V/19, IMO Res. A.424(XI),  
IMO Res. A.694(17), IMO Res. MSC.191(79), IMO Res. MSC.302(87)****item No. MED/4.31. SOLAS 74 as amended, Regulation X/3, IMO Res. A.694(17),  
IMO Res. A.821(19), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79),  
IMO Res. MSC.302(87), IMO MSC.1/Circ.1349****item No. MED/4.9. SOLAS 74 as amended, Regulations V/18, V/19 & X/3,  
IMO Res. A.526(13), IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73),  
IMO Res. MSC.191(79), IMO Res. MSC.302(87)**

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

This Certificate is valid until **2023-12-13**.Issued at **Hamburg** on **2018-12-14**DNV GL local station:  
**Augsburg**for **DNV GL SE**Approval Engineer:  
**Jörg Rebel**Notified Body  
No.: **0098****Sven Dudszus  
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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

