HF Jensen A/S

Inductive Sensors for Marine Engines



Hans Frederik Jensen founded HF Jensen as a machinetool shop in 1917. Growing out of this mechanical experience, the sensor division was started in 1972 by the third generation of this family owned company.

With our 2000 square meter facility in Copenhagen, Denmark, we develop, test and manufacture transducers and transmitters for displacement, pressure, differential pressure, and level measurements.



Each of our products are We will continue to employ fully tested for sensitivity, stability and linearity. Details from these tests are stored in our database, and each transducer is provided

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with a Certificate of Calibration. The technical specifications of each product are maintained so that repair, replacement and supplementation are possible for at least 10 years. HF Jensen is ISO 9001 certified and Achilles JQS qualified.

Our products can be found in many different applications including: nuclear power, offshore, automotive, food processing, chemical & pharmaceutical.

The primary goal is to provide our customers with the most reliable, durable, and up-to-date sensor products available today.

the latest manufacturing technology, components and materials in the further development of these products.





Robust sensors for harsh environments



... for MAN licencees and their subsuppliers

HFJ-1883059

HFJ-1883058



FIVA | ELFI | PEVA | Alpha Lubricator MK II **Exhaust Valve | HCU** For noi The proximity sensor is developed to provide feedback of the position The **1881672-9** is used to control the movement of the magnetic materials of the exhaust valve on the MAN Energy Solutions ME engine. Fuel Injection Valve (FIVA) for the ME engine. Today this sensor is also used in other ME engine applications. Today this sensor is also used in the Hydraulic Cylinder Unit (HCU). HFJ-1883058 1881672-9 Sensor type HFJ-1883059 HFJ-1883072 HFJ-1883074 Sensor type Length 64 mm 120 mm 120 mm 90 mm Applications FIVA | ELFI | PEVA S19R (Magnetic) SNCrW (Non-Magnetic) Measuring range **Target material** Output **Measuring range** 7 mm 4 - 16.25 mA **Supply Voltage** Output 16 - 31.2 Vdc **Supply Voltage** 10:15 Il sensors are tested Each sensor is deliv-Drift with temperature ered with a Certificate over full operational over the full measuring temperature, which enof Calibration. range is tested for all sures that the drift with sensors to ensure that temperature is within output stability is withthe specification. in specification.

Why choose HF Jensen

- With more than 40 years of experience, you leverage from our extensive experience of developing and manufacturing inductive sensors for harsh environments. When partnering up with HF Jensen you get a robust sensor with well thought-out features.
- Every sensor is assembled and tested thoroughly inhouse. This ensures a high

quality and reliable end product for our customers.

- The radial cable outlet puts less strain on the cable, making it easier to mount and protect on the engine.
- Using a contactless measurement principle reduces wear and leads to a long lifetime.
- It could not be easier, a main-

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tenance free sensor, just plug and play.

- The manufacturing of the sensor is done using materials suitable for long time operation in a pressurized, corrosive environment in contact with fuel and motor oil.
- Very competitive price for a robust high quality product.



Development cooperation

- Early in the project phase for the two stroke ME engine MAN Energy Solutions asked us to develop a sensor for measuring the position of the exhaust valve and later the Fuel Injection Valve (FIVA).
- Since the beginning of 1995, and after iterative development, test and trials, the first product was finally implemented in 2003.



Alpha Lubricator MK II

22 mm 4.143 - 19.857 mA

16 - 31.2 Vdc



The sensors are pressurized at maximum working pressure to verify a stable output signal, unaffected by pressurization.

Today we continuously develop our sensors in order to comply with the latest specifications from MAN Energy Solutions, as they continue to improve the performance of their engines.

