

# HF Jensen A/S



Hans Frederik Jensen founded HF Jensen as a machine-tool 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 fully tested for sensitivity, stability and linearity. Details from these tests are stored in our database, and each transducer is provided

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.

We will continue to employ the latest manufacturing technology, components and materials in the further development of these products.



# Inductive Sensors for Marine Engines



*Robust sensors for harsh environments*

*... for MAN licences and their subsuppliers*

**H F JENSEN**  
SENSOR TECHNOLOGY

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*Please fill in agent details*



1881672-9  
5625289-4\*



HFJ-1883072



HFJ-1883074



HFJ-1883059



HFJ-1883058



For non-magnetic materials



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## Exhaust Valve | HCU

The **proximity sensor** is developed to provide feedback of the position of the exhaust valve on the MAN Energy Solutions ME engine.

Today this sensor is also used in the Hydraulic Cylinder Unit (HCU).

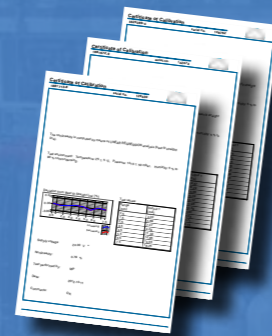
**NEW**  
For non-magnetic materials



Sensor type	HFJ-1883059	HFJ-1883058	HFJ-1883072	HFJ-1883074
Length	64 mm	120 mm	120 mm	90 mm
Target material	S19R (Magnetic)		SNCrW (Non-Magnetic)	
Measuring range	7 mm			
Output	4 - 16.25 mA			
Supply Voltage	16 - 31.2 Vdc			



All sensors are tested over full operational temperature, which ensures that the drift with temperature is within the specification.

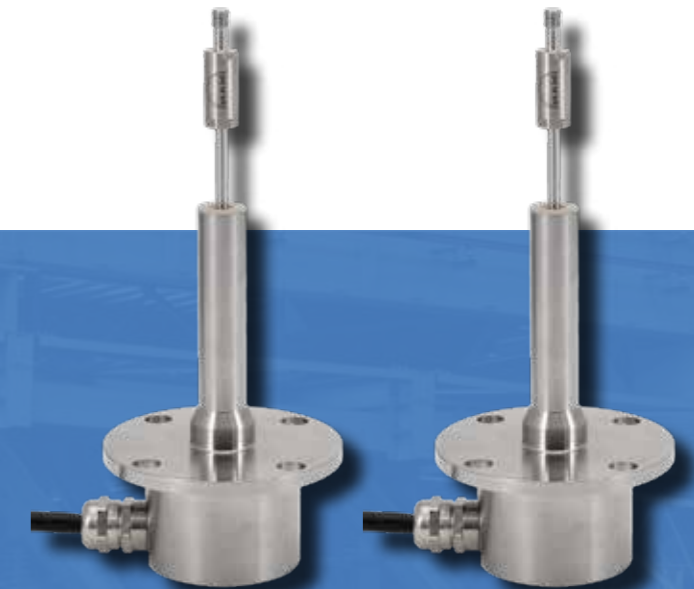


Each sensor is delivered with a Certificate of Calibration.

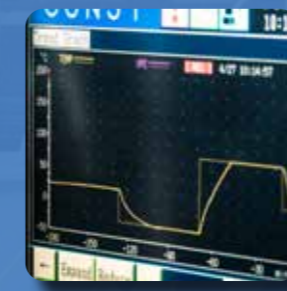
## FIVA | ELFI | PEVA | Alpha Lubricator MK II

The **1881672-9** is used to control the movement of the Fuel Injection Valve (FIVA) for the ME engine.

Today this sensor is also used in other ME engine applications.



Sensor type	1881672-9	5625289-4
Applications	FIVA   ELFI   PEVA	Alpha Lubricator MK II
Measuring range	22 mm	
Output	4.143 - 19.857 mA	
Supply Voltage	16 - 31.2 Vdc	



Drift with temperature over the full measuring range is tested for all sensors to ensure that output stability is within specification.



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

## 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 in-house. 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 maintenance 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.



MAN-G95ME

## 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.
- 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.

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