

TRITON BOTM – Bearing Oil Temperature Monitoring System (BOTM)

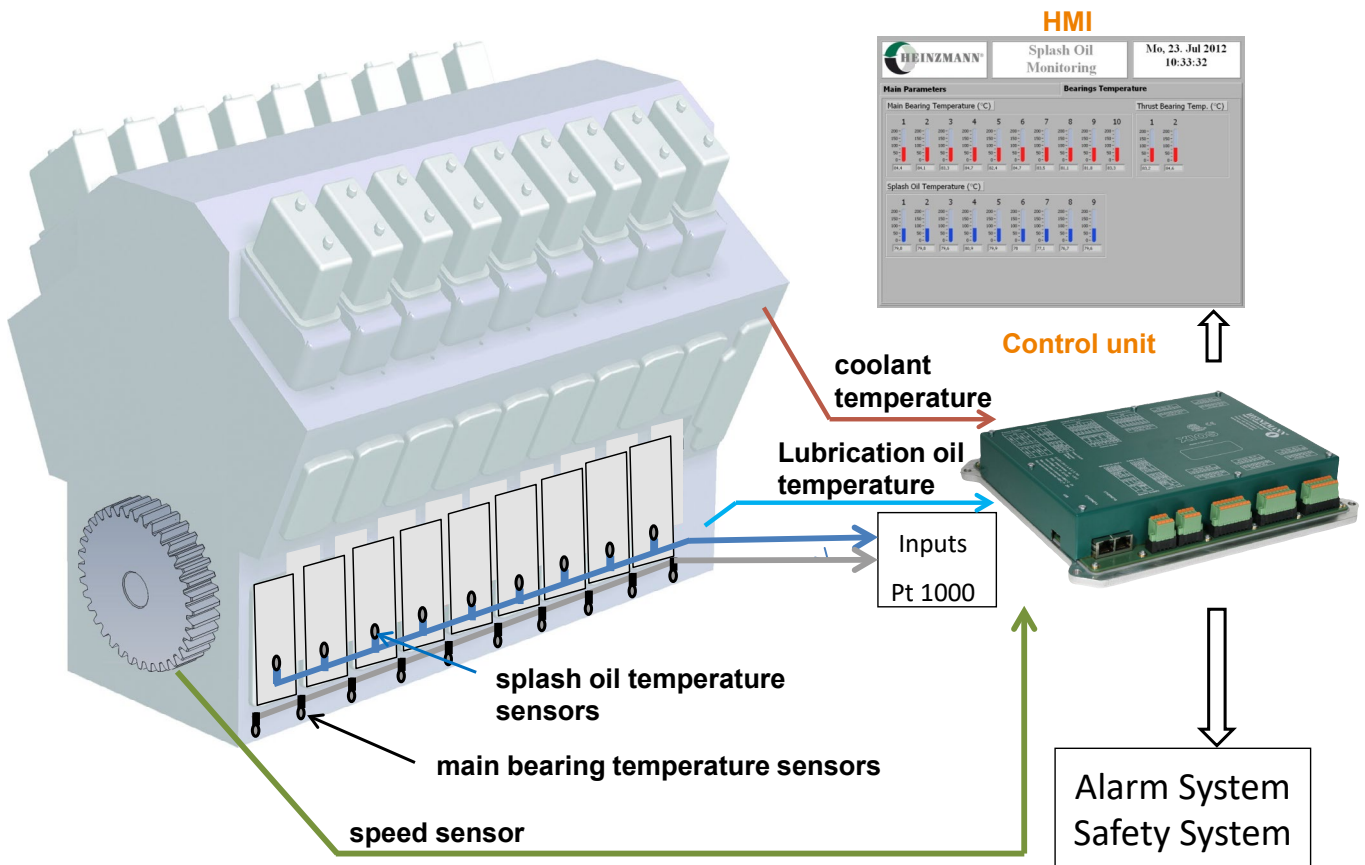
This order form will help us to calculate and advise the proper BOTM System for your engine application. Please fill in the form and do not hesitate to contact HEINZMANN in case of doubts or question. For identical applications this procedure will not be required as HEINZMANN will inform you about part numbers, commissioning instructions and settings.

The Heinzmann BOTM system consists of 2 sub-systems: Splash Oil Temperature Monitoring (SOTM) and Main Bearing Temperature Monitoring (MBTM). These abbreviations are used in the order form. The sub-systems are able to work in combination and separately.

Main components of the system are control unit, temperature sensors, one speed sensor, one coolant temperature sensor and cable harness.

www.heinzmann.com/en/engine-and-turbine-management/engine-monitoring

SCHEMATIC OVERVIEW OF THE SYSTEM



CUSTOMER INFORMATION

Company

Address

Email Phone Fax

Customer-ID Order No.

Contact person/Division Date

ENGINE DATA

Engine type Diesel Gas Dual-fuel
 2-stroke 4-stroke
No. of cylinders New engine Retrofit
 In-line engine V-engine
Needed systems SOTM (please note: Only for 4 stroke engines available*)
 MBTM

Splash Oil Temperature Monitoring (SOTM)

Wall thickness of 'service cover' at sensor installation position: mm (see Images 1 and 2 below)

*Please attach dimensional drawing of the 'service cover' as well as of complete engine (if available) or fill in the dimensions below.

Image 1

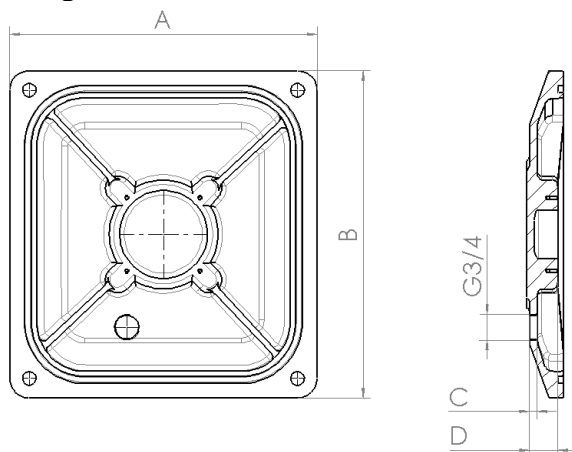
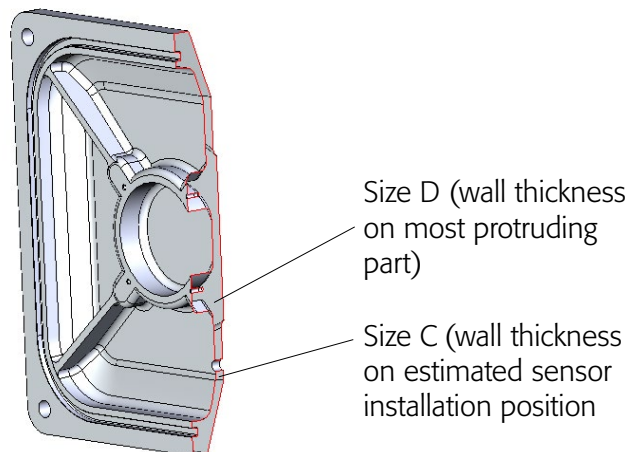


Image 2



Size A mm Size B mm Size C mm Size D mm
 Needed SOTM sensors quantity

SOTM Cable Harness

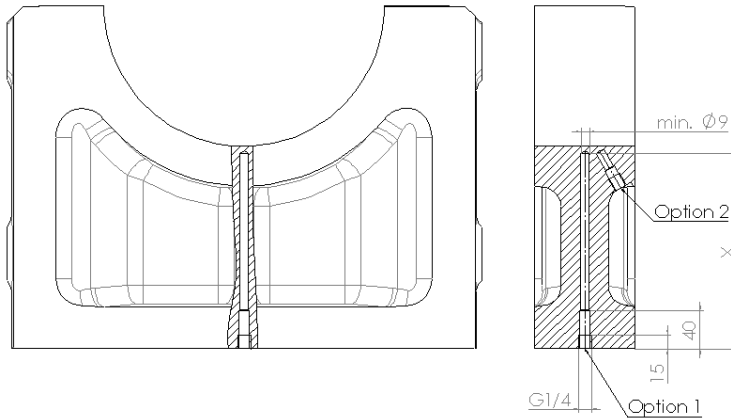
Cable length between ECU and:

Sensor 1 <input type="text"/> mm	Sensor 9 <input type="text"/> mm	Sensor 17 <input type="text"/> mm
Sensor 2 <input type="text"/> mm	Sensor 10 <input type="text"/> mm	Sensor 18 <input type="text"/> mm
Sensor 3 <input type="text"/> mm	Sensor 11 <input type="text"/> mm	Sensor 19 <input type="text"/> mm
Sensor 4 <input type="text"/> mm	Sensor 12 <input type="text"/> mm	Sensor 20 <input type="text"/> mm
Sensor 5 <input type="text"/> mm	Sensor 13 <input type="text"/> mm	Sensor 21 <input type="text"/> mm
Sensor 6 <input type="text"/> mm	Sensor 14 <input type="text"/> mm	Sensor 22 <input type="text"/> mm
Sensor 7 <input type="text"/> mm	Sensor 15 <input type="text"/> mm	Sensor 23 <input type="text"/> mm
Sensor 8 <input type="text"/> mm	Sensor 16 <input type="text"/> mm	Sensor 24 <input type="text"/> mm

Main Bearing Temperature Monitoring (MBTM)

Wall thickness of a main bearing cap at sensor installation position: mm
 (see size X on image 3 below)

Image 3



Please attach the dimensional drawing of the main bearing assembly.

Is End Bearing Monitoring required: Yes No

If yes, please provide the drawing of the End Bearing

Needed MBTM sensors quantity:

MBTM Cable Harness

Cable length between ECU and:

Sensor 1 <input type="text"/> mm	Sensor 9 <input type="text"/> mm	Sensor 17 <input type="text"/> mm
Sensor 2 <input type="text"/> mm	Sensor 10 <input type="text"/> mm	Sensor 18 <input type="text"/> mm
Sensor 3 <input type="text"/> mm	Sensor 11 <input type="text"/> mm	Sensor 19 <input type="text"/> mm
Sensor 4 <input type="text"/> mm	Sensor 12 <input type="text"/> mm	Sensor 20 <input type="text"/> mm
Sensor 5 <input type="text"/> mm	Sensor 13 <input type="text"/> mm	Sensor 21 <input type="text"/> mm
Sensor 6 <input type="text"/> mm	Sensor 14 <input type="text"/> mm	Sensor 22 <input type="text"/> mm
Sensor 7 <input type="text"/> mm	Sensor 15 <input type="text"/> mm	Sensor 23 <input type="text"/> mm
Sensor 8 <input type="text"/> mm	Sensor 16 <input type="text"/> mm	Sensor 24 <input type="text"/> mm

SENSORS

Speed sensor

Spare speed sensor available Yes No

If yes, type of the sensor Rated output signal

If no, does passing holes on crankshaft or camshaft are available Yes No

If yes, thread

Notes

Coolant temperature sensor

Coolant temperature sensor available Yes No

Available analogue signal from supervising system Yes No

If yes, which type: 4 ... 20 mA 0 ... 5 V

Thread of the available connection

Lubrication oil temperature sensor

Lubrication oil temperature sensor available Yes No

If yes, which type:

Available analogue signal from supervising system Yes No

If yes, which type: 4 ... 20 mA 0 ... 5 V

Thread of the available connection

SYSTEM OPTIONS

Options for communication with a supervising control system

CAN bus Modbus Relay output Ethernet Other

HMI Yes No

Software for monitoring and service Yes No

Separate control cabinet Yes No

Available power supply VAC VDC

Certification required

In case of a retrofit of another system, please provide type and manufacture of the existing system.

Notes: