

Product Information

DetCon20 – Handling of 4 Knock-Sensors at MAN® E3262E302/LE2xx Gas Engines

Since 2016 MAN® defines the standard scope of supply for E3262xx series engines with pre-installed BOSCH® knock sensors (type KS 4). Four sensors are mounted on the engine block, two sensors per bank.

It is mandatory that the knock detection is tested at the engine onsite.

Please see further details on commissioning in the DetCon20 Manual which is delivered with each device on USB-stick.

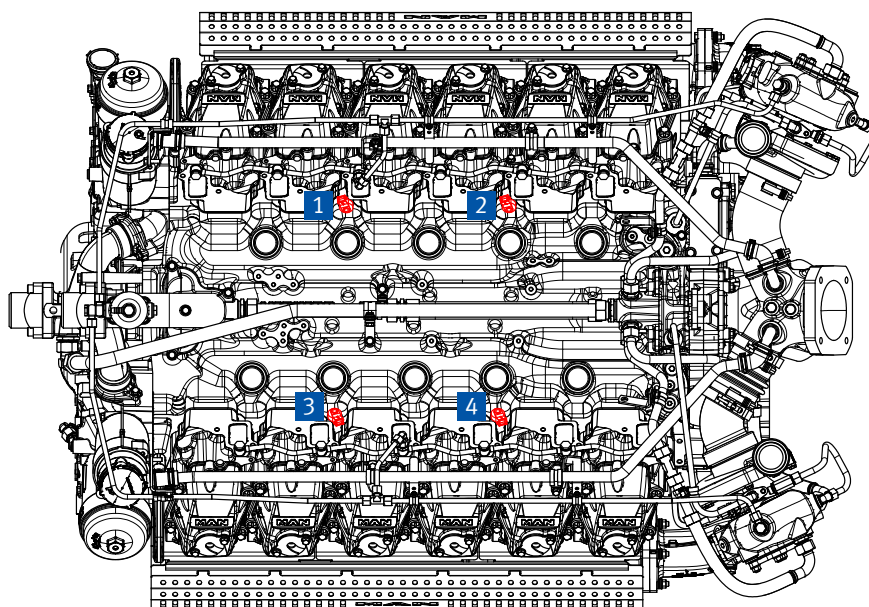


Figure 1: knock-sensor position E3262

The MOTORTECH KnockDetection DetCon20 can be set up as follows to handle 4 knock sensors and to identify each individual cylinder in knock events.

Knock-Sensor Wiring Information E3262E/LE with 4 Knock-Sensors:

- 1 Cable from knock sensor 1 to DetCon20 input 3 and bridging to inputs 1 and 5
- 2 Cable from knock sensor 2 to DetCon20 input 9 and bridging to inputs 11 and 7
- 3 Cable from knock sensor 3 to DetCon20 input 10 and bridging to inputs 8 and 12
- 4 Cable from knock sensor 4 to DetCon20 input 4 and bridging to inputs 6 and 2

Required Software:

DenEdit version 1.6.1.2 (Device software version 2.5). The *.dep parameter-file will be delivered with the USB-Stick of the DetCon20.

DISTRIBUTION

Customers / others	No
Representatives and Sales Partners	Yes
OEM partners	No
MOTORTECH subsidiaries	Yes

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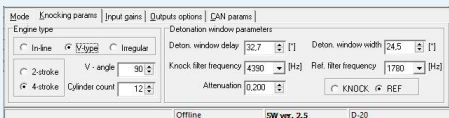
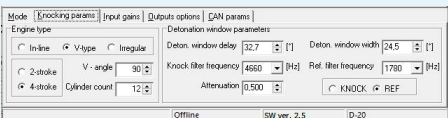
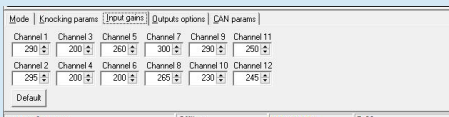
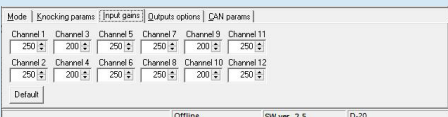
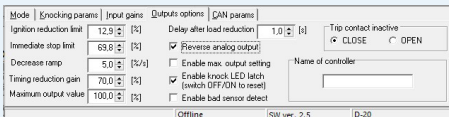
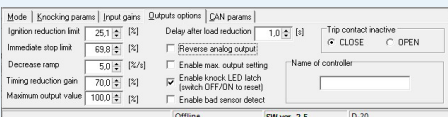
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DenEdit Recommended Settings:

It is required that each engine is checked in the settings when the DetCon20 is assembled. The knocking behavior of the engine should also be checked in order to fine-tune the tested settings. Especially the **Outputs options** have to be adjusted to onsite specifications:

- Ignition Reduction Limit
- Immediate Stop Limit
- Decrease Ramp
- Timing Reduction Gain
- Delay after Load Reduction

	E3262E (stoichiometric operation)	E3262LE
Knocking parameter settings		
Gain settings		
Outputs options (settings)		

Additional Parts:

Pieces	P/N	Description
4 pcs	43.30.034-60	Detonation sensor lead, 2-pole, 180°
1 pc	43.00.020	DetCon20 Control unit
1 pc	43.20.002	ISU ignition sensor unit (optional required, when no MOTORTECH MICx Ignition Controller is used)

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