

MIC3

MOTORTECH IGNITION CONTROLLER

MIC3 – Ignition Controller

Based on the new MOTORTECH ignition controller platform the MIC3 with 200 mJ primary energy is designed for gas engines with up to 12 cylinders.

High ignition energy, accurate spark timing and diversified online diagnostics help to improve engine efficiency, spark plug life and availability of the equipment under the strictest emission regulations. The controller is fully customer configurable via Laptop.

- Adjustable spark duration and intensity
- Constant spark intensity via adjusted duration
- 200 mJ primary energy (300 mJ boost)
- Ignition diagnostics (primary and secondary)
- Fault memory with trend data
- Integrated CANopen and Modbus RTU interface
- Easy access per USB port



Technical Data & Features

- 10 to 32 VDC supply voltage
- 6 / 12 ignition outputs
- 250 VDC primary voltage
- 200 mJ primary energy (300 mJ boost)
- 0.1° crankshaft accuracy
- Triggered by 1 or 2 pickups (magnetic, hall effect or inductive / configurable)
- Multiple timing control via
 - Speed curve
 - 0-20 mA analog input
 - 0-10 V analog input
- Multiple energy control via MOST (MOTORTECH Output Stage Technology)
- Programmable firing order
- 1 multipurpose output (GPO)

- 1 Auxiliary Synchronization Output (ASO) which can support a detonation control system (e.g. DetCon) or fuel injection pump controllers
- Ignition release input
- Go/NoGo output
- Overspeed shutdown function
- Access controlled

Ignition Diagnostic

- Run time data
- Alarm and error messages
- Data logging
- Primary and secondary misfire detection
- Cylinder individual high voltage calculation (kV)
- 5 LEDs provide a quick system state overview

Interfaces

- CAN Bus 2.0b interface (CANopen protocol)
- RS485 interface (Modbus RTU)
- USB 2.0 interface

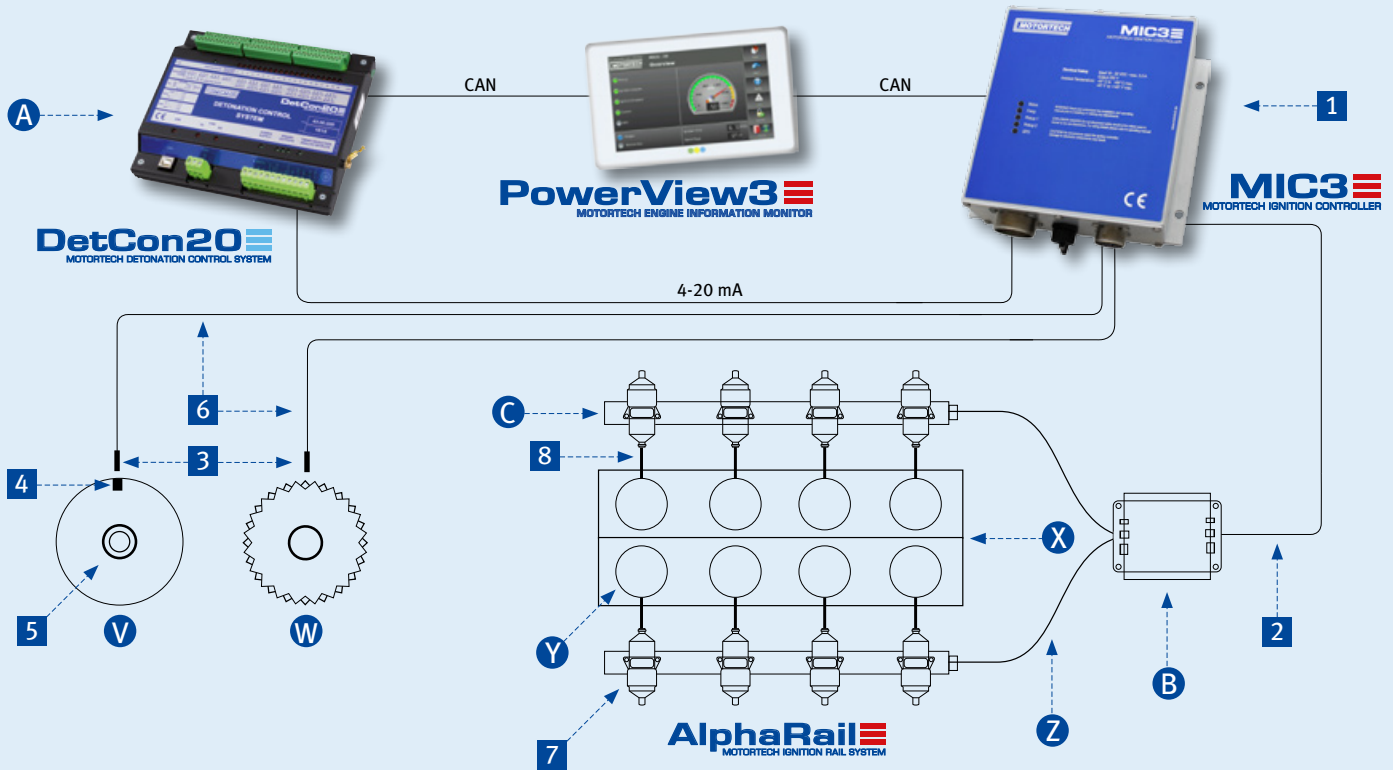
Configuration

- Fully configurable via Laptop with MICT software

MOST

MOTORTECH OUTPUT STAGE TECHNOLOGY

- Adjustable spark duration at different high voltage levels
- Constant ignition spark energy
- Patented technology



Required Accessories

- 1 MIC3 ignition controller
- 2 Output harness*
- 3 Pickups*
- 4 Trigger pins & magnets
alternative
- 5 Trigger discs
alternative
- Trigger device
- 6 Pickup leads*
- 7 1 Ignition coil per cylinder*

Accessories

- B Junction box
- C AlphaRail – Ignition wiring rail

System Enhancement

- A DetCon20 – Detonation controller
- D PowerView3 – HMI module

Description

- V Camshaft
- W Crankshaft

X Engine

Y Cylinder

Z Harness to connect ignition wiring rail and junction box

* For detailed information about these products please contact your local distributor.

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