

# APPLICATION NOTE

## Wiring and Communication between Ignition Controller and DetConz/20

This application note contains general information on wiring and communication between an ignition controller MIC3+/MIC4/MIC5 and a detonation control system DetConz/20 from MOTORTECH.

The application note is aimed at personnel tasked with the setup, operation, maintenance, and repair of gas engines. A certain level of technical knowledge with respect to the operation of gas engines and basic knowledge of electronic ignition systems are necessary.



### Read the operating manuals of the devices

This application note is an addition to the operating manuals of the ignition controller and the detonation control system. Read and understand the complete documentation of both devices prior to start-up.

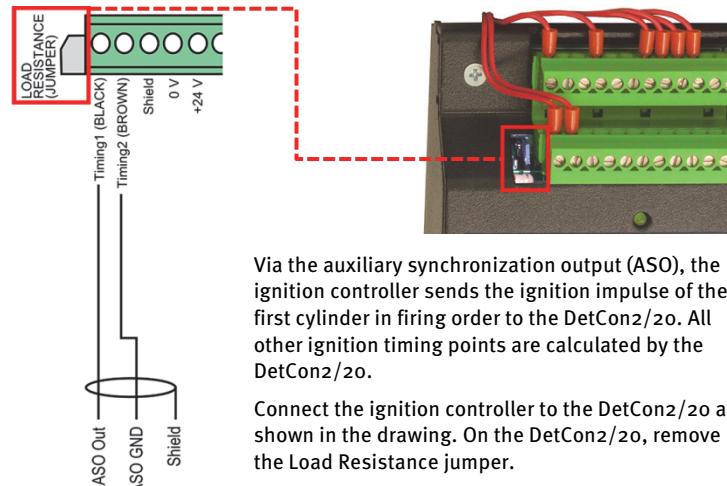


### MOTORTECH recommends using the analog current signal

The DetConz/20 can also transmit the ignition timing adjustment via the analog voltage signal. However, for most cases, MOTORTECH recommends using the analog current signal. When a failure threshold has been set, using the analog current provides reliable protection for the engine in case of a cable break.

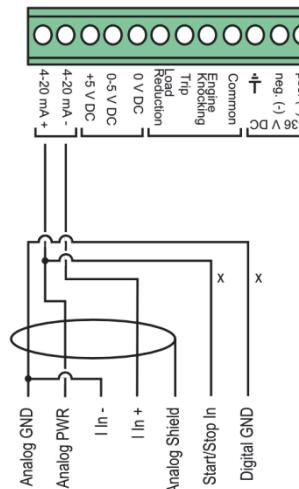
## Wiring

### DetConz/20



### Ignition controller

## DetConz/20



Via the analog current signal (4-20 mA), the DetConz/20 sends the required ignition timing adjustment to the ignition controller.

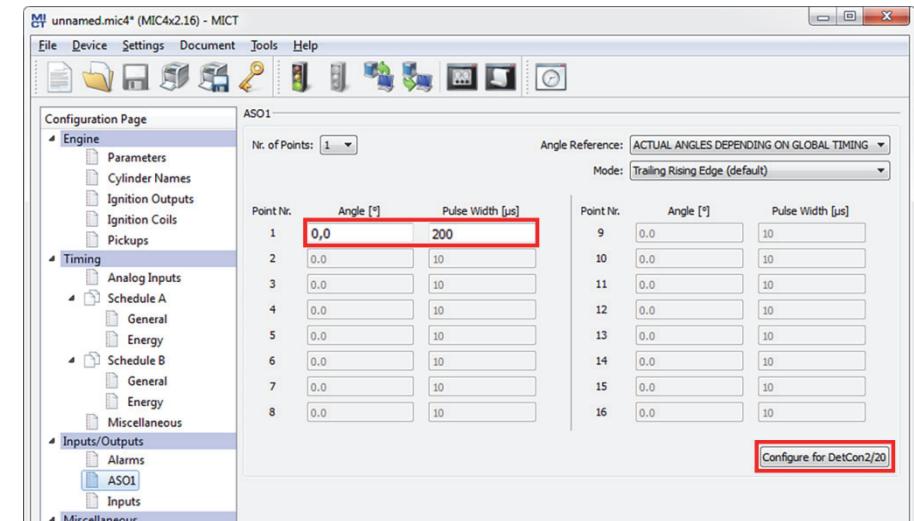
Connect the ignition controller to the DetConz/20 as shown in the drawing. (The bridge for permanent authorization [x] must be removed for external ignition authorization.)

## Ignition controller

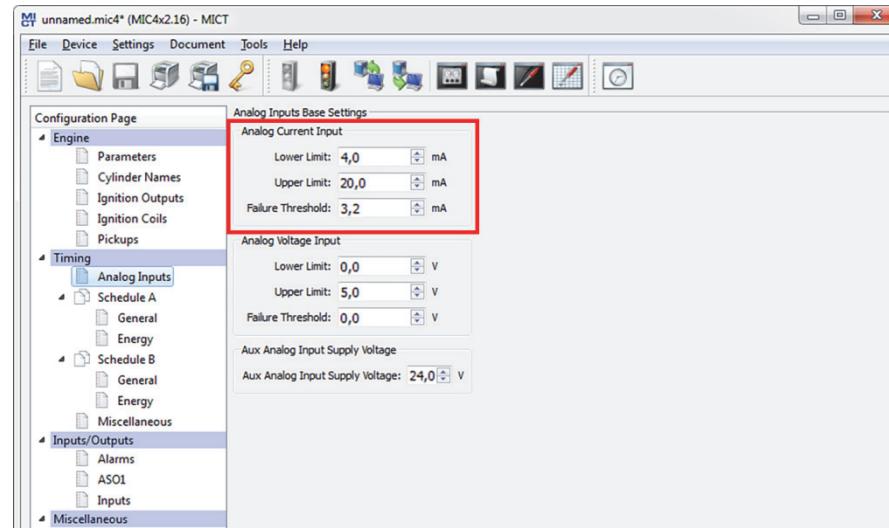
- The wiring between ignition controller and DetConz/20 has been established.

## Settings in the MICT

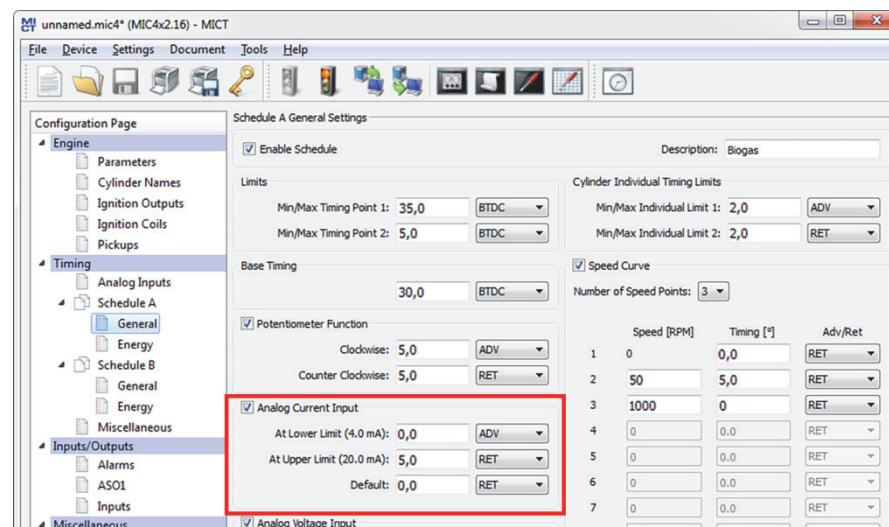
- In the view ASO1, click Configuration for DetConz/20 to configure the auxiliary synchronization output of the ignition controller. Individual settings can be made.



2. In the view *Analog Inputs*, set the *Lower Limit* of the analog current input to 4 mA and the *Upper Limit* to 20 mA, and set a *Failure Threshold*.



3. In the view *Schedule A/B – General*, activate the analog current input and set the ignition timing adjustment for 4.0 mA and for 20.0 mA.



4. Upload the configuration to your ignition controller.

- You have configured the MICT to operate with the DetConz/20.

