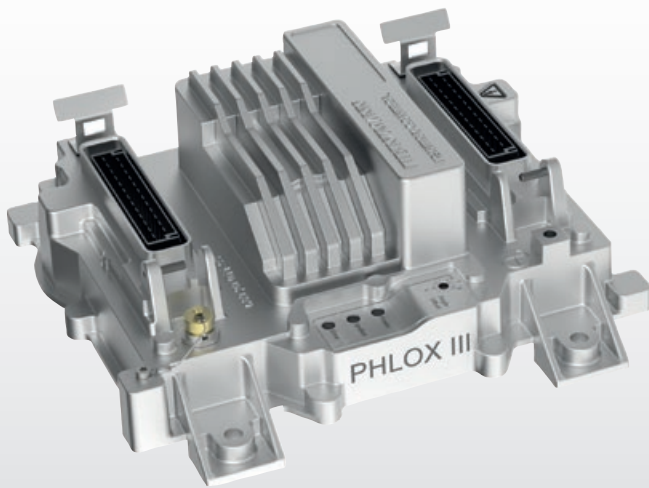


PHLOX III IGNITION CONTROL SYSTEM



- ✓ **Modulated high-energy capacitive ignition unit**
- ✓ **FlexSpark Technology – fully configurable flexible spark in term of energy, length and waveform**
- ✓ **Robust ignition and stable combustion**
- ✓ **Increased engine performances**
- ✓ **Easy integration via CAN**
- ✓ **Up to 16 cylinders**
- ✓ **Extended version for up to 24 cylinders**

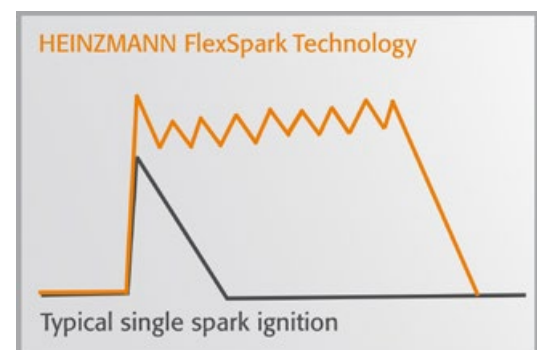
PHLOX III is not a classical multi-spark system with several successive breakdowns. It comprises advanced capacitive ignition control with FlexSpark technology. To extend the spark to a configured width and to avoid premature extinction, the discharge of the high voltage capacitor is modulated. Doing so the spark is fully configurable in term of energy, length and current waveform.

Compared to a typical single spark ignition system, FlexSpark shows convinces with misfiring limits and can cope with extreme lean burn conditions.

As a consequence advanced capacitive ignition leads to a better ignition reliability. Engines can be run leaner resulting in lower NO_x emissions. The misfiring level is lower and combustion stability is better so HC emissions are reduced. Engines can be run with improved spark advance for better efficiency and diminished fuel consumption.

PHLOX III is suitable for

- ➔ High efficiency / High Bmep gas engines
- ➔ Gas engines with high level of turbulences and low ignition energy density
- ➔ Extreme lean burn conditions
- ➔ Gas with very low heating value (biogas, wood gas, mining gas, etc.)



Subject to changes and corrections. ©Heinzmann GmbH & Co. KG, 2018



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