

For over 70 years Synchro-Start has been the world leader for industrial engine control and management. The vast Synchro-Start range provides a huge choice of products: solenoids (alone or with mounting kits), digital electronic speed governors (with PC link), digital engine control systems. Synchro-Start's QS9000 certification reflects its devotion to its clients. All products are designed for the longest possible lifetime and are tested in the harshest conditions to ensure incredible quality and performance.

Since 2003, Synchro-Start has been part of Woodward, thus joining the undisputed leader in equipment for industrial engines.

Solenoids

Dual coil solenoids (internal or external switching)



To control stop levers, accelerators, carburettor or valve butterflies, exhaust flaps...

External switch type (ES)

Exist as dual coil versions (pull and hold coils) with external switching via «coil commander» or other unit.

Internal switch type

The solenoids also exist with internal switches for simpler wiring with high performance.

Common characteristics

Robust and compact; Range of solenoids with 40 to 180N of torque and a 25mm stroke; Very good water tightness; Dust cover; Corrosion-proof; Eye, screw, or wire connectors with connector option; IP44 protection; Operating temperature: -40 to +120°C; 12 or 24 volt power supply; Male or female fixing, M6 or ¼" – 28. Push or pull operation; Lloyds register certified

Coil commander

This external switch module which is installed upstream from the solenoid manages switching between the pull and the hold coil. Provides optimal security for switching.



For injection pumps



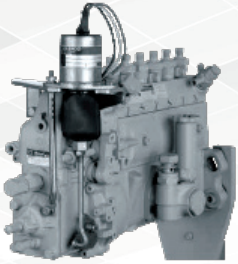
Synchro-Start offers a whole range of engine stop systems which include all parts necessary for adaptation upon the following pumps: Bosch RSV or RQV-K, Zexel Nippondenso RSV, Kubota 3A & 1A, Mitsubishi L...Quick and easy installation. 12 or 24 volt power supply. Connector, screw, wire etc. hook up possibilities.

Internal or external coil switching via «coil commander». Anti-corrosion moving parts

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Speed measurements

Tachometers, signal generators, speed switches



MINI GEN

Mechanical tachometer: mechanical part which takes 1, 2, or 3 thresholds (MSS-1, -2, or -3) from a power take off. Allows starter release threshold, under-speed, and over-speed management. Sealed for life bearings; 10A output contacts; various mounting possibilities.

Signal generator: Mini-GEN sensors are mounted on a power take off. Output voltage: 25 to 55 volts RMS. Fixing points: SAE 7/8»-18 (MGO), M18 or M22 (MGJ). Temperature: -40 to +107°C.

Electronic speed switches: 3 channel programmable digital module: allows engine protection and control (over-speed, start, preheat...). State and diagnostic using 3 LEDs. 6 configurable inputs and 5 configurable outputs. Choice of input signal: magnetic pickup, hall effect, W terminal or ignition



EPS 1000