

The **DV2** is a new, robust and an easy to use Electronic speed switch suitable for industrial engines and generators applications.

The **DV2** has 2 separated speed switches terminal output.

ADVANTAGES

- Speed sensing from Magnetic Pick-up or from Alternator AC.
- Meter output for optional RPM indicator.
- Resin encapsulated for harsh environments.
- Screw-clamp terminals for ease of connection.
- 16A "Volt-Free" contact sets.



DV2 CARD SIDE VIEW



DV2 CARD TOP VIEW



Part numbers:

A27Y0 DV2 Electronic Speed Switch

FEATURES & SPECIFICATIONS

➤ BENEFITS

The **DV2** is a robust and superior quality product thanks to the European standard manufacturing experience. The **DV2** offers you an easy-to-use product to manage 2 separate speed switches terminal output, independently set between 10% and 140% of rated speed. Factory values are at 40% for crank cut and 114% for overspeed.

➤ CONTROL AND MONITOR

12V_{DC} and 24V_{DC} operation is provided via separate terminals. Two "programming" terminals allow hardwire selection for each speed switch to operate in latched or un-latched mode and further "programming" terminal selects the frequency range for ALT or MPU speed sensing. The "meter" can be a temporary voltmeter to help calibration or a permanent RPM indicator.

➤ DISPLAYED INFORMATION

- **Red LED's** are on to indicate when their respective relay is energised.
- **Green LED** on when the unit is powered.

➤ AFTER SALES SERVICE

Like every CRE TECHNOLOGY products, the unit also benefits from our technical support. All CRE TECHNOLOGY products are delivered with one year warranty.

➤ ALT/MPU SELECTION

- **Speed sensing input ALT** = 50 to 280 Vrms 'CAL' Range = 40Hz to 230 Hz.

- **Speed sensing input MPU** = 1-85Vpk-pk 'CAL' Range = 1200 Hz to 7000 (48 to 280 teeth @ 1500 RPM).

➤ INPUTS, OUTPUTS

- 'CAL' potentiometer adjusted for correct RPM indication at nominal speed.
- **Relays S1 and S2:** NO/NC Volt free contact 16A at 32VDC resistive load or 115/230VAC1
- **RPM indication (optional):** 0-1mA 75Ω

➤ NOMINAL VOLTAGE DC SUPPLY

- **12VDC:** 8 to 16V_{DC}
- **24VDC:** 16 to 32V_{DC}

➤ ENVIRONMENT & PROTECTIONS

- **Operating temperature:** -20°C (-4°F) to 70 °C (158°F).
- **Storage temperature:** -40°C (-40°F) to 70 °C (176°F).
- **Maximum humidity:** 95% non-condensing.

➤ CERTIFICATIONS

- **European Union Directives:** EC EMC Directive 2014/30/EC, EC Machine Directive 89/392/EC.
- **Low voltage Directive 2015/35/EEC, EN50124:** 2001, EN50082-2 :1996, EN 50092-1 :1996, EN61000-4-5: 2014.)

RELATED PRODUCTS

The **MAGNETIC PICK-UP (MPU)** is the communication link between the engine and the electronic controller. The MPU is installed next to the drive shaft gear made of a material which reacts to a magnetic field.

As the flywheel rotates it interrupts the MPU's magnetic field and produces an AC signal corresponding to the engine speed.

This range offers advantages as:

- Detects steel sensing gears.
- Produces electrical frequency.
- Easy installation on engine.
- Different sizes & connectors.

EASY-TO-USE PRODUCT

- Screw magnetic pickup into flywheel housing until contact is made with top surface of gear tooth on flywheel. Back magnetic pickup out one complete revolution and tighten nut.
- Connect electrical leads.
- The MPU must show a minimum of 2.5V with controller connected for an efficient speed reading.

FULLY COMPATIBLE WITH ALL ENGINES

Whether in inches or in metrics, CRE TECHNOLOGY provides a range of MPUs: they are available in different lengths, thread and connector types.



M16 RANGE



5/8" RANGE



3/8" - 24 UNF



3/4" - 16 UNF



COW 500

WIRING DIAGRAM

