



DV2

Electronic Speed Switch

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.



PART NUMBERS	DESCRIPTION
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A27Y0	DV2 Electronic Speed Switch
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KEY FEATURES

➔ 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 125% of rated speed. Factory values are at 40% for crank cut and 114% for overspeed.

➔ Control and monitor

12VDC and 24VDC 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.

SPECIFICATIONS

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 16VDC
24VDC	16 to 32VDC

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





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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.

Advantages:

- 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..



M16 RANGE



5/8" RANGE



3/8" - 24 UNF



3/4" - 16 UNF



COW 500

WIRING DIAGRAM

