



# 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.

This product offers the following 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.



## 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 140% 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.

### 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

- Operating temperature: -20°C...+70°C (-4°F...158°F).
- Storage temperature: -40°C ...+70°C (-40°F ...158°F).
- Humidity: 90% 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.



Part number: A27Y0

### RELATED PRODUCTS & CABLES

Magnetic Pick-up COM 16-70S, COM 16-54C, COM 16-92C.  
Magnetic Pick-up COM 5/8-70S, COM 5/8-54C, COM 5/8-92C.  
Magnetic Pick-up COM 3/8-60W, COM 3/4-70W.  
Pick-up cable



### 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

