

# Deep Sea Electronics Plc

200 series CONTROL MODULES

## MODEL 203 SPEED SWITCH

### DESCRIPTION

The model 203 SPEED SWITCH has been designed to monitor the speed of an engine or rotating machinery by detecting pulses from a magnetic pick-up, mounted near the engine flywheel or toothed drive wheel. Indication of detected RPM is given by a meter drive output. The unit can be set to detect the trip level between 10% and 140% of the engines normal operating speed. Indication that the unit has exceeded its trip settings is given by LED on the front panel of the unit.

- Speed sensing from a magnetic pick-up
- Trip adjustment via customer accessible preset
- 15 amp rated trip relay
- Facility to latch trip relays
- Power up reset
- RPM meter output



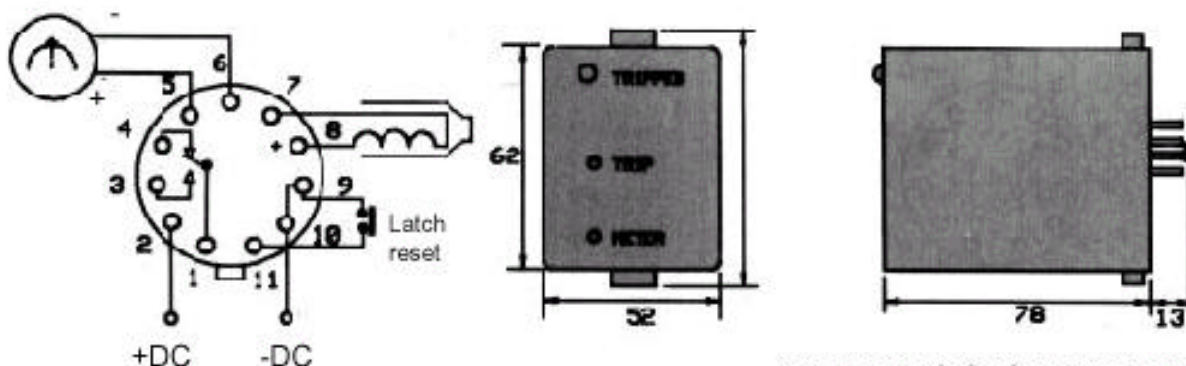
### SPECIFICATION

DC SUPPLY:	12v (8v to 16.v) 24v(16v to 33v) Electronically stabilised Protected against supply born transients
OPERATING TEMPERATURE RANGE:	-10°C to + 60°C
CASE MATERIAL:	Plastic
CONNECTIONS:	11 pin octal base
SENSOR INPUT:	Magnetic transducer 200Hz to 10KHz Impedance 10 oHms to 1K oHms input signal range 1v to 80v RMS
TRIP POINT:	10% TO 140% of rated RPM
METER OUTPUT:	1 milli amp full scale deflection

### OPERATION

On application of a continuous DC supply voltage, the unit will start counting the pulses from the magnetic pick-up. Should these pulses exceed the preset RPM setting, then the trip will be activated and the relay contacts will change state. Indication of the unit trip is via a red LED on the front panel of the unit. Should the latch NOT be disabled, then the relay contacts will be locked in the tripped state. The relay can be reset by removal of the DC power supply or application of a negative to the reset terminal. Adjustments to the trip setting and meter drive output can be made by engineers in the field.

### CASE DIMENSIONS



ALL DIMENSIONS ARE IN MM

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