

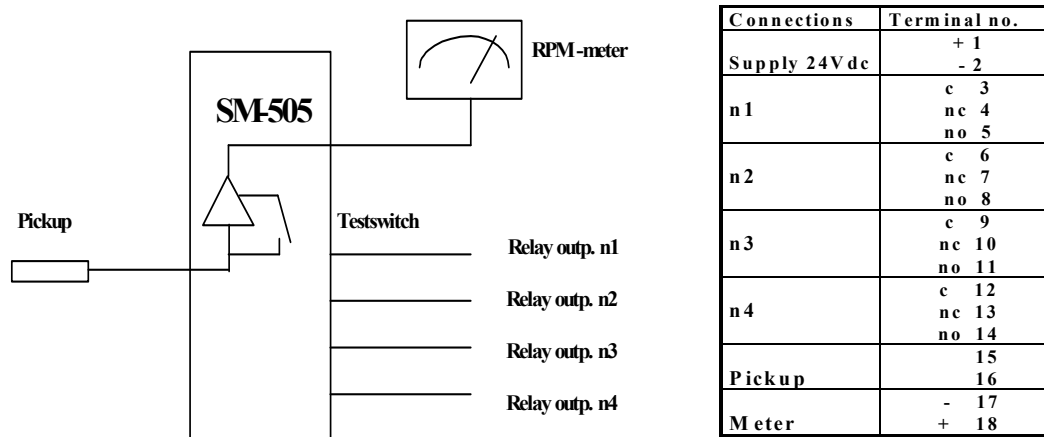
SM-505 SPEED MONITOR

SM-505 is a electronic tachometer with 4 idividual alarms, combined in a plastic enclosure with DIN 35 rail snapin mount. SM-505 is designed for a various applications, such as measuring of RPM with induvidual triggersettings of external equipment.

Features:

- No mechanical transitions
- Wide frequecy range
- Four independent relay outputs, with potentialfree contacts
- Channel indicators LED
- Adjustable setpoint over the whole range
- Easy adjustment
- Testswitch for Output of n4 to increase nom. rpm.up 20%

Scematic block diagram :



Adjustment:

The easyest way of adjusting the tacho input to the right RPM is by connecting a pulsegenerator to the pickup input of the SM-505. By using the formula below ^(*), you can determin the frequency to use for certain RPM. Adjust the RPM settings multiturn potentiometer clockwise until the meter displays the right RPM.

This procedure can also be used to adjust the settings of n1 to n4 triggerpoints.

LED 's will light up when the desired setpoint has been reached.

*** $Frequency = (No. of teeth or pulses) \times RPM / 60.$**

Technical description:

Voltage supply : 24Vdc +/- 20%
 Current sink : Aprox. 150mA
 Ambient temp. : 0 - 60°C / 32 - 140°F
 Inp.Signal : Min 0.5V RMS
 Inp freq. Range : 10 - 10000 Hz
 Accuracy : +/- 2%
 Contact ratings : 220Vdc / 250Vac2Amp.
 Output meter : 0 - 1mA / 0 - 10Vdc
 Width : 60mm / 2 3/8 inch.
 Hight : 70mm / 2 3/4 inch.
 Depth : 110mm / 4 1/3 inch.

ELMATIK AS

Po.Box 309 N-3471 Slemmestad

T: +47 31 28 37 83 Fax: +47 31 28 37 93 M: post@elmatik.no

<http://www.elmatik.no>

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