



- * **βSAK 215MN**
- * **βSAK 215VN**
- * **βSAK 215N**

PULSE SHAPER CIRCUITS FOR REVOLUTION COUNTERS

The βSAK 215N monolithic integrated circuit, consists of an input trigger, a monostable and an output circuit.

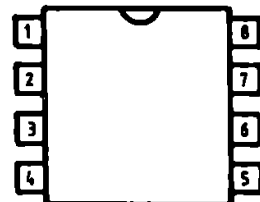
The built-in voltage regulator enables the circuit to operate over a large supply voltage range. The circuit converts the input pulses to a standard (amplitude and pulse duration) current or voltage output pulses.

The βSAK is designed for use in revolution counters of cars and other applications like frequency to current converters. By use of suitable external circuitry the revolution counter can be adapted to engines with two to eight cylinders. It is designed for a nominal DC 12 V supply.

Features

- Operating temperature	βSAK 215MN ...	-55 ...	+125 °C
	βSAK 215VN ...	-25 ...	+85 °C
	βSAK 215N ...	0 ...	+70 °C
- Storage temperature	βSAK 215MN ...	-55 ...	+125 °C
	βSAK 215VN ...	-40 ...	+125 °C
	βSAK 215N ...	-25 ...	+125 °C
- Internal regulator voltage		7.4 ...	8.2 V
- Supply current		max.	12 mA
- Output voltage pulse amplitude		2 ...	2.5 V

- 1. GND
- 2. Input
- 3. Monostable capacitor
- 4. Monostable capacitor and resistor
- 5. Current output pulses
- 6. Voltage output pulses
- 7. Internal regulator voltage
- 8. Internal regulator current output



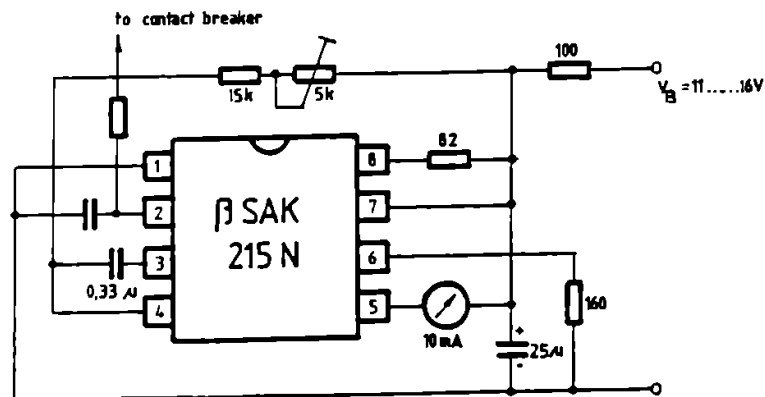
PACKAGE MP-48 / TOP VIEW

* Preliminary data



β SAK 215MN ; β SAK 215V ; β SAK 215N (cont.)

Typical application



OPERATING CIRCUIT OF A REVOLUTION COUNTER
WITH FSD = 6000 RPM (TWO IGNITION PULSES
PER TURN OF THE CRANK-SHIFT) AT A NOMINAL
BATTERY VOLTAGE OF 12 V.