Mounting instruction LED-EEDM Ø80mm for Burton

1. Safety Instructions

Existing cable ducts should be used for electrical cable installation. Never do lay cables parallel to ignition cables or other cables leading to large power consumers. This can cause false revolution signals.
The cables should be fixed with cable ties or adhesive tape.

Please note when laying the wires:
- don‘t lay the cable over moving parts
- protect cables at feed-throughs (rubber grommets or similar)
- don‘t stress the cable by pressure, tension or shear
- strip the cable with stripping pliers without damaging the stranded wire
- do crimp connections only by means of crimping pliers
- exposed and unused wires must be insulated (danger of short circuit)

Check all cables and connection for short circuits after electrical work.
Incorrect connections can cause short circuits. Short circuits in the vehicle electrical system can cause cable fires, battery explosions and damage to other electrical systems.

Use suitable tools for installing the device. Please observe the safety instructions of the tool manufacturer.

2. Content

- rev-counter (EEDM)
- nuts and washer

3. Device description

The electronic rev counter (EEDM) is suitable for positive (e.g. transistorized ignition systems) and negative ignition pulses (e.g. CDI ignition systems) as well as for separate connection to the ignition electronics. The transmission ratio is switchable. Thus the rev counter can be used universally. Prerequisite is a 12 V vehicle electrical system with negative pole of the battery connected to vehicle ground.

The revolution input signal can be taken from:
- ignition coil (terminal 1 = minus pole)
- ignition electronics (ignition box with separate rev-counter connection)

Depending on the number of pulses per engine revolution there are different transmission ratios which can be set:
- i=1:2 (1 impulse per 2 crankshaft revolutions) – e.g. Harley Davidson single fire
- i=1:1 (1 impulse per 1 crankshaft revolution) – das häufigste Übersetzungsverhältnis
- i=2:1 (2 impulse per 1 crankshaft revolution) – wenige, teilweise ältere Modelle
- i=3:1 (3 impulse per 1 crankshaft revolution)

The respective transmission ratio is set with the two DIP switches located on the bottom of the housing.

When mounting the instrument in the dashboard, fix the mounting bracket from the inside and clamp it to the dashboard.

Pulsotronic-Anlagentechnik GmbH
Geschäftsbereich MMB Instrumente
Wiesenstraße 2
D-09380 Thalheim
Tel: +49 (3721) 2698 967
info@mmb-instrumente.de
www.mmb-instrumente.de

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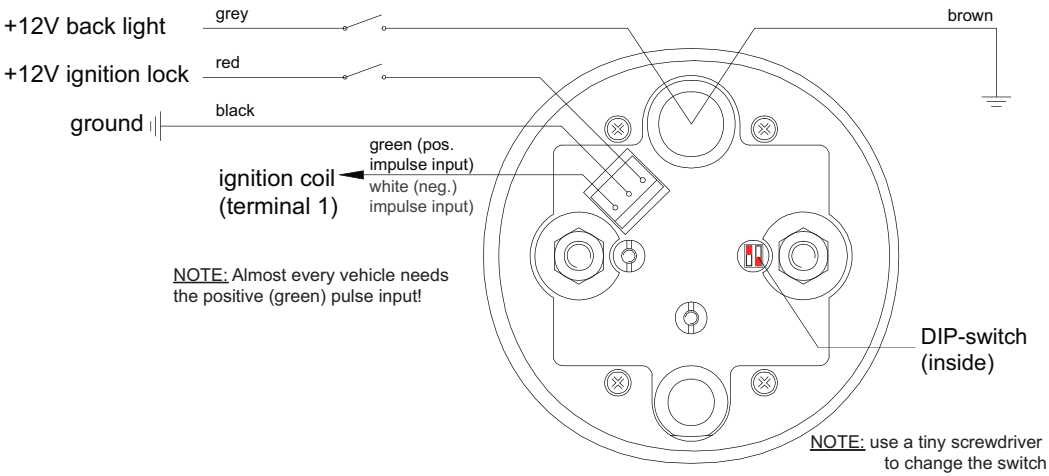
4. Electrical connection

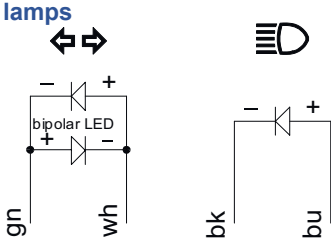
Please carry out all work with a diconnected battery and observe the safety instructions listed above!

Ø80mm:



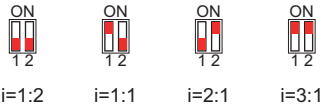
ATTENTION: Only use the green wire (positive impulses)
→ The unused white wire must be insulated!

5. Connection of the control lamps



6. Adjusting the ignition pulses per crankshaft revolution

Please adjust the DIP switch if neccessary through the hole with a small screwdriver!



factory setting is „1:1“

Procedure, if the rev counter shows false rpm or you use an after market ignition

1. leave DIP switch on i=1:1 (factory setting)
2. If an ignition box with a separate rev counter connection is installed, then connect the green wire (pos.) to the signal output of the electronic
3. Connect the battery. The rev-counter will perform a full pointer deflection as function check.
4. Start the engine (idle speed is sufficient).
5. After starting the engine, the pointer must move and it must indicate some revolution. If this is the case,

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lease lay the white cable insulated blind and continue with chapter 6 „Setting the ratio“.
6. If there is no pointer deflaction/ display of a revolution when the engine runs in idle then stop the engine and disconnect the battery again. Now disconnect the green wire (pos.) and connect the white wire (neg.) instead.
7. Connect the battery. The rev-counter will perform a full pointer deflaction as function check.
8. Check the revolution in idle and continue with the chapter 6 „Setting the ratio“ if the value isn‘t correct.

6. Switch the rev counter settings

After connecting the battery the rev counter will perform a full pointer deflaction.
→ If the revolution is correct, the factory settings (1:1) can be maintained
→ If the revolution isn‘t correct, the ratio muss be changed in these steps:

The ignition must be switched off when the DIP-switch is changed!

- half displayed revolution → change DIP-Switch to 1:2
- double displayed revolution → change DIP-Switch to 2:1
- triple displayed revolution → change DIP-Switch to 3:1

8. Technical Data

	Ø80mm
housing depth	60mm
installation depth incl. fastening bolts	approx.85mm
outer diameter bezel	85mm
diameter housing	80mm
diameter mounting hole	80.5...81mm
weight	approx 235g
light	light bulb T10
nominal voltage	+12VDC (ground connected to batterie)
operating voltage	10.8...15V
current consumption	max. 150mA (without light: approx. 70mA)
operating temperature	-20...+85°C
revolution impulses	positive or negative input pulses - compatible from TTL 5V (ignition box) to ignition pulses from terminal 1

9. Waste disposal & disclaimer

The crossed-out wheeled bin means that you are obliged by law to dispose of this equipment separately from the unsorted municipal waste collection system. Disposing of it in the residual waste bin or the yellow bin for recyclable materials is prohibited.
Owners of waste electrical and electronic equipment are allowed to return them to those facilities for returning or collecting waste electrical and electronic equipment set up and provided by the public-sector waste disposal authorities, to ensure that the waste electrical and electronic equipment is disposed of correctly. The following link leads to an online registry of the available collection and take-back sites:
https://www.ear-system.de/ear-verzeichnis/sammel-und-ruecknahmestellen

We are registered as a manufacturer of electrical and/or electronic equipment with registration number DE87266676 at stiftung elektro-altgeräte register, Benno-Strauß-Str. 1, 90763 Fürth

Instruments made by „MMB Instrumente“ are manufactured with great care in Germany and are 100% tested and must not be opened. No liability is accepted for damage caused by improper use and incorrect installation.

Pulsotronic-Anlagentechnik GmbH
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