

# Ignition Module IM 4

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- ▶ Max. 4 cylinders
- ▶ 54 g
- ▶ Fits to all ECUs without internal ignition power stage like MS 6
- ▶ Especially adapted for Coils P50(-M) and P65

This module is an external ignition power stage capable of supplying up to four non-transistorized ignition coils.

The IM input signal should be supplied by an ECU with ignition signal outputs in the range of 10 to 20 mA, e.g. MS 4 Sport.

The IM unit combines the robustness of a high quality production part with good electrical performance to provide an ideal solution for adapting non-transistorized coils to an ECU without internal ignition driver stages.

## Application

Primary current	≤ 8.5 A
Clamp voltage	380 ± 30 V
Operating temperature range at measuring point	-40 to 120°C
Storage temperature range	-40 to 130°C
Max. rpm (ensure chilled mounting position)	8,000
Max. vibration	400 m/s <sup>2</sup> at 5 to 2,500 Hz

## Technical Specifications

### Mechanical Data

Size	70.5 x 68 x 20 mm
Weight w/o wire	54 g
Mounting	2 x M4 screws with spring washer

### Electrical Data

U <sub>Batt</sub> typical	13.5 V
Voltage supply	6 to 16.5 V
I <sub>B</sub> high active on	min. 10 mA
I <sub>B</sub> low off	0 mA
I <sub>B</sub>	10 to 22 mA
I <sub>C</sub> typical	< 8.5 A
I <sub>C</sub> max. at T <sub>U</sub> < 120°C	< 10 A
U <sub>CE</sub> satt at I <sub>C</sub> = 5 A	< 3 V
U <sub>CE</sub> satt at I <sub>C</sub> max	< 9 V

### Connectors and Wires

Connector (Coil T1)	Bosch Jetronic 4-pole
Mating connector Jetronic 4-pole	D 261 205 351-01
Pin 1	Collector transistor 4
Pin 2	Collector transistor 3
Pin 3	Collector transistor 2
Pin 4	Collector transistor 1
Connector (ECU)	Bosch Jetronic 5-pole
Mating connector Jetronic 5-pole	D 261 205 352-01
Pin 1	Basis transistor 1
Pin 2	Basis transistor 2
Pin 3	Gnd
Pin 4	Basis transistor 3
Pin 5	Basis transistor 4

### Installation Notes

This ignition module can be used with Coils PS, P35, P50(-M), P65, 2x1, 2x2, 3x2 or comparable coils.

Please ensure that the connectors are safe from water.

The IM has to be mounted onto a cooling body. The mounting surface needs a planarity of 0.2 mm.

A heat conductive paste has to be used.

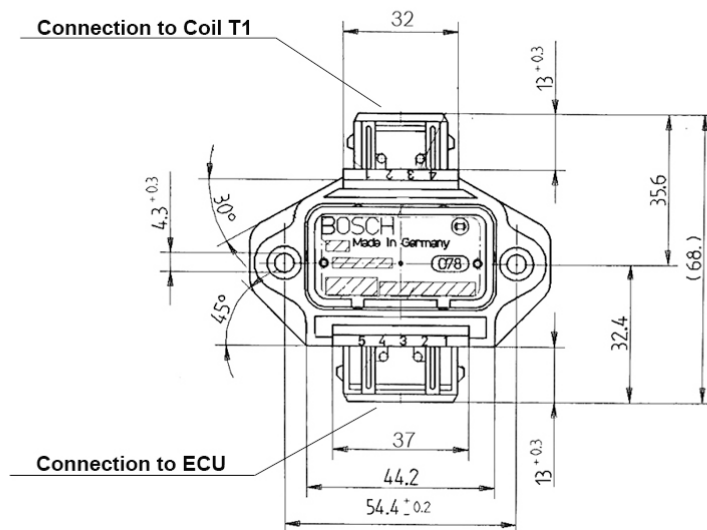
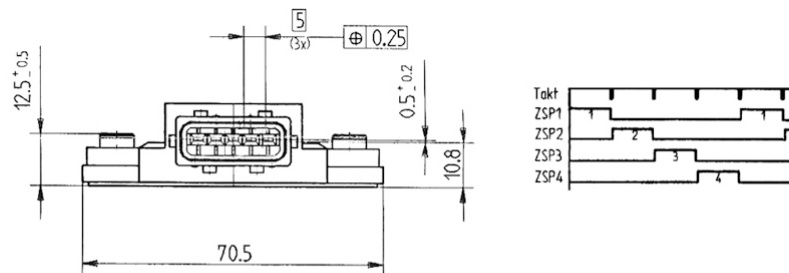
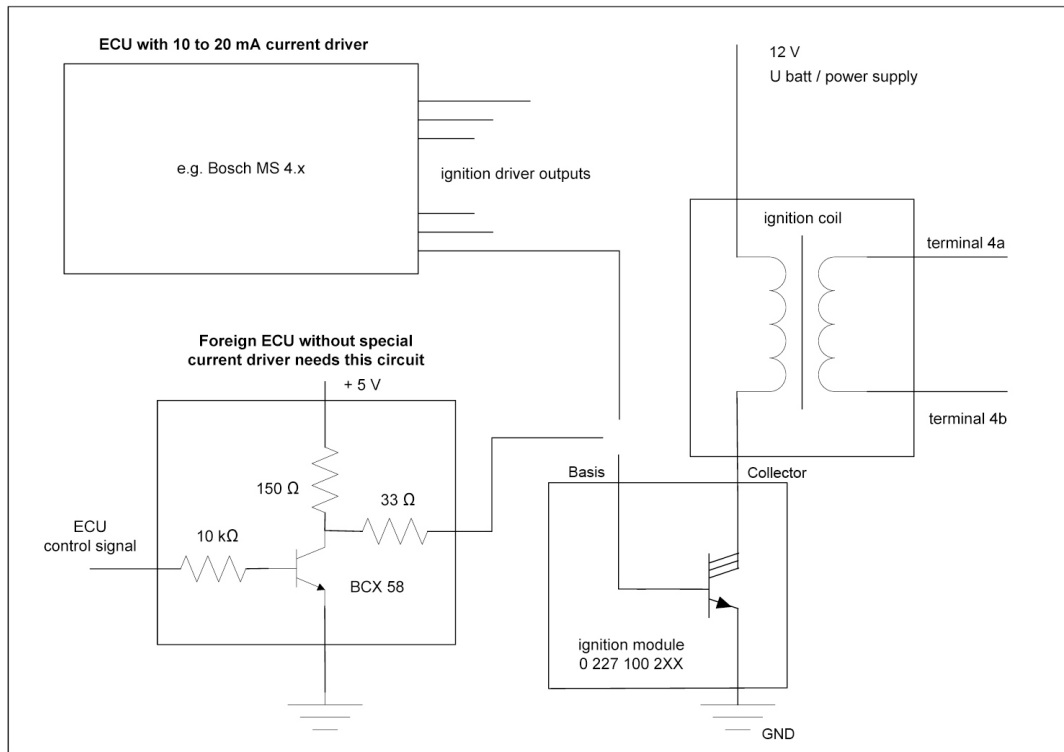
This ignition module is designed for use with engine control units which have no integrated ignition transistor.

Please observe the specified limit values.

### Ordering Information

**Ignition Module IM 4**  
Order number **0 227 100 211**

Dimensions



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